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Daniel Kraft: Medicine's future? There's an app for that | TED Talk

https://www.ted.com/talks/daniel_kraft_medicine_s_future_there_s_an_app_for_that

All Words

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Session 1: Word List

attend

v. to be present at an event, to go to a place

synonym: go, be present, accompany

(1) **attend** a meeting, (2) **attend** service

We must **attend** to this matter.

confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym: consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

introduction

n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

synonym: initiation, preamble, prologue

(1) **introduction** education, (2) self- **introduction**

The **introduction** to the new class was informative and engaging.

genome

n. the complete set or sequence of genes of a human, animal, plant, or other living things

(1) sequencing of the human **genome**, (2) **genome**

analyses

The human **genome** contains approximately three billion chemical base pairs.

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

synonym: hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder

Understanding protein folding is a vital step in deciphering the **genetic** code.

mitochondria

n. (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food

(1) a membrane of a **mitochondria**, (2) healthy **mitochondria**

Mitochondria DNA is used to trace human lineage and migration footprints.

haplotype

n. a specific combination of genetic variations or alleles that are inherited together on the same chromosome from a single parent, which is used to analyze genetic patterns and understand the inheritance of specific traits or diseases

synonym: allele, gene, genetic variant

(1) specific **haplotype**, (2) genetic **haplotype**

The **haplotype** analysis provided valuable insights into the evolutionary history of the species.

distant

adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship

synonym: far, isolated, remote

(1) a **distant** memory, (2) **distant** ancestors

The sun set over the crest of **distant** hills.

relate

v. to establish a connection or association between two or more things; to narrate or tell about an event,

experience, or relationship; to empathize or feel sympathy with someone or something

synonym : connect, link, associate

(1) **relate** a story, (2) **relate** a message

He tried to **relate** his experience to the group, but they couldn't understand.

genealogy

n. the study of family history and the tracing of lineages

synonym : lineage, ancestry, family history

(1) **genealogy** research, (2) **genealogy** chart

She spent hours tracing her family tree and discovering new information about her **genealogy**.

lever

n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily

synonym : lifter, crowbar, bar

(1) a gear change **lever**, (2) **lever** for reform

This initiative will be a **lever** for increasing company sales.

disciplinary

adj. of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study

synonym : corrective, punitive, instructive

(1) **disciplinary** action, (2) take **disciplinary** measures

The school's **disciplinary** committee met to discuss the student's behavior.

exponential

adj. becoming more and more rapid; of or involving mathematical exponents

(1) **exponential** growth, (2) **exponential** function

Since the 1990s, the Internet has continued to experience **exponential** growth.

analyze

v. to think about in-depth and evaluate to discover essential features or meaning

synonym : explore, examine, investigate

(1) **analyze** a chemical compound, (2) **analyze** your real motives

The teacher attempted to **analyze** the root cause of our mistake.

bioinformatics

n. the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

synonym: computational biology, genomics

(1) **bioinformatics** research, (2) **bioinformatics** tools

Bioinformatics algorithms are essential for identifying and analyzing patterns in biological data.

linear

adj. of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph

synonym: straight, direct, right

(1) **linear** trend, (2) a **linear** equation

People tend to make **linear** predictions.

lily

n. a flowering plant with large, showy, trumpet-shaped flowers, typically symbolizing purity, innocence, and beauty

(1) **lily** perfume, (2) water **lily**

The beautiful **lily** garden in the park was a sight to behold.

divide

v. to separate or cause to separate into parts or groups

synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

physician

n. a medical doctor who practices medicine

synonym: doctor, practitioner, medic

(1) the advice of the **physician**, (2) consult with a **physician**

She visited the local **physician** to seek treatment for her

persistent headache.

innovate

v. to introduce new methods, ideas, or products

synonym : bring in, introduce, found

(1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

fragment

n. a small piece or part broken off or detached

synonym : piece, shard, segment

(1) **fragment** of a text, (2) a broken **fragment**

The archaeologist carefully pieced together the tiny **fragments** of pottery found at the dig site.

adoption

n. the action or fact of legally taking another's child as one's own; the act of accepting with approval

synonym : fostering, acceptance, custody

(1) **adoption** assistance, (2) the **adoption** of a plan

The **adoption** process can be long and difficult, but it is worth it for the love of a child.

innovation

n. the creation of a new device or process resulting from study and experimentation

synonym : invention, initiation, creation

(1) **innovation** leader, (2) cutting-edge **innovation**

The vegetarian burger was an **innovation** that quickly spread to the United Kingdom.

curve

n. a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape

synonym : bend, arc, turn

(1) learning **curve**, (2) yield **curve**

The **curve** in the road was so sharp that I had to slow down to navigate it safely.

incentivize

v. to make someone want to do in a particular way by offering them a reward

synonym: encourage, motivate

(1) **incentivize** carpooling, (2) **incentivize** the right behavior
Governments **incentivize** their citizens to buy eco-friendly products through subsidies.

improve

v. to make or become better

synonym: enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score
We want to **improve** ties between our two countries.

dramatically

adv. in a very impressive manner

synonym: greatly, noticeably, suddenly

(1) he confessed **dramatically**, (2) the cabin pressure fell **dramatically**

Life expectancy has grown **dramatically** this century.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict
Internet traffic volumes have increased significantly with the advent of **smartphones**.

insight

n. the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

synonym: wisdom, discernment, understanding

(1) a profound **insight**, (2) share my **insights**

We gained various **insights** by analyzing the vast amount of data owned by the company.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

institutionalize

v. to establish or make something a part of an institution (= a place such as a university, hospital, etc.)

synonym: formalize, establish, regularize

(1) **institutionalize** a system, (2) **institutionalize** customary laws

The new policy aims to **institutionalize** the use of renewable energy sources.

singularity

n. (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind

synonym: black hole, individualism, uniqueness

(1) black hole **singularity**, (2) the **singularity** of the Divine

Scientists have predicted that the universe will end in a **singularity**, where all matter will collapse into an infinitely dense point.

silicon

n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

(1) **silicon** wafer, (2) crystalline **silicon**

Silicon is the second most abundant element on earth after oxygen.

valley

n. a long depression on the surface of the land, which typically contains a river

synonym : canyon, gorge, dale

(1) **valley** bottom, (2) basin-shaped **valley**

The **valley** had received a mild snowfall the previous week.

talented

adj. having a natural ability or aptitude for something;
showing exceptional skill or ability in a particular area

synonym : gifted, able, skilled

(1) a very **talented** actor, (2) **talented** athlete

She is a **talented** musician, able to play several instruments.

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

intelligence

n. the ability to learn, comprehend, or make judgments or conclusions based on reasons

synonym : brains, brightness, cleverness

(1) an **intelligence** test, (2) field of artificial **intelligence**

In terms of **intelligence**, he was head and shoulders above his classmates.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

unmet

adj. describing a need, goal, or expectation that has not been satisfied or fulfilled

synonym : unsatisfied, unfulfilled, unmatched

(1) **unmet** demand, (2) **unmet** needs

The **unmet** expectations of the customers led to a decrease in sales.

executive

n. a person or group of people with top-level management responsibility in a business or other organization; the branch that is responsible for implementing, administering, and enforcing laws, as well as running the day-to-day operations

synonym: administrator, manager, director

(1) **executive** editor at the publishing house, (2) **executive** vice president

As the **executive** director of the non-profit, it's her responsibility to make sure they're meeting their mission goals.

mention

v. to speak or write about something or someone briefly

synonym: reference, allude, cite

(1) **mention** name, (2) **mention** in a report

I **mentioned** to him that I had seen his sister at the grocery store earlier that day.

app

n. (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

synonym: application, software

(1) killer **app**, (2) cannot log in to the **app**

The discovery of a critical bug caused the company to delay the **app's** release.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym: flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

merge

v. to combine or integrate things, or to cause this to happen

synonym: combine, join, coalesce

(1) **merge** into a new party, (2) **merge** those systems into a

new one

This consulting firm decided to **merge** the two companies into one.

diagnose

v. to determine or distinguish the nature of a problem or an illness through a careful analysis

synonym: identify, analyze, interpret

(1) **diagnose** the problem, (2) **diagnose** with CT scans

This device is used to **diagnose** brain cancer and other tumors.

glucose

n. a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things

synonym: sugar, blood sugar

(1) blood **glucose** test, (2) **glucose** level

The doctor injected **glucose** into his patient's veins.

diabetes

n. a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood

(1) juvenile **diabetes**, (2) **diabetes** patient

My father was tested for **diabetes**.

surpass

v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

synonym: excel, outdo, outperform

(1) **surpass** imagination, (2) **surpass** \$20 billion in sales

The athlete's record-breaking performance **surpassed** all expectations.

computation

n. the act or process of calculating something, especially an answer or amount, by using a machine or calculator

synonym: calculation, estimation, arithmetic

(1) parallel **computation**, (2) theory of **computation**

The researcher demonstrated the superiority of quantum **computation** in several mathematical tasks.

applicable

adj. fit or suitable to be applied; having relevance to a person or thing

synonym : practical, usable, useful

(1) give **applicable** examples, (2) accordance with **applicable** law

This regulation is not **applicable** to minors.

resolution

n. a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

synonym : determination, decision, settlement

(1) **resolution** of a conflict, (2) display **resolution**

He made a New Year's **resolution** to exercise more and eat healthier.

incredible

adj. unbelievable; enormous

synonym : unbelievable, fantastical, inconceivable

(1) **incredible** amount, (2) at **incredible** speed

Her response revealed **incredible** idiocy.

pet

n. an animal that you have at home as a companion and treated kindly

(1) a **pet** bird, (2) a teacher's **pet**

I have a parrot as a **pet**.

scan

v. to examine something hastily, with the eyes or with a machine, to get information

synonym : look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF

She stood on the podium and **scanned** an audience.

molecular

adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

synonym : microscopic, atomic

(1) **molecular** structure, (2) **molecular** biology

Molecular weight is the sum of all the atoms.

curator

n. a person whose job is to manage the objects or artworks in a museum, art gallery, etc.

synonym : conservator, custodian, administrator

(1) **curator** of a library, (2) interim **curator**

The museum **curator** conserved the ancient manuscripts.

brain

n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

synonym : intellect, mind, encephalon

(1) basic **brain** function, (2) permanent **brain** damage

X-rays revealed a small tumor in his **brain**.

essentially

adv. relating to the essential features or concepts of anything

synonym : fundamentally, basically, virtually

(1) **essentially** correct, (2) become **essentially** same

Essentially, a society is an organism.

reconstruct

v. to build or form something again that has been damaged or destroyed

synonym : rebuild, revamp, reorganize

(1) **reconstruct** an image, (2) **reconstruct** the original text

They've decided to **reconstruct** a ruined castle.

reengineer

v. to redesign or restructure something such as a machine, system, organization, etc.

synonym : redesign, remodel, revamp

(1) **reengineer** work processes, (2) **reengineer** the organizational structure

As technology evolves, we need to **reengineer** our work styles.

backward

adv. at, to, or toward the direction or place that is behind or rear

synonym : back, rearward, in reverse

(1) walk **backward**, (2) **backward** angle

She falls over **backward** when she sees her mother-in-law.

engineer

n. a person whose job is designing, building, or maintaining something such as machines, structures, or software

synonym : architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

pathology

n. the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders

synonym : medical science, pathophysiology

(1) benign **pathology**, (2) clinical **pathology**

The **pathology** report showed no signs of cancer, giving her family a sense of relief.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym : illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

therapy

n. the act of caring for someone through medication, remedial training, etc.

synonym : antidote, medicine, treatment

(1) **therapy** for a patient, (2) field of gene **therapy**

I underwent aversion **therapy** for my addiction to alcohol.

MRI

n. (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body

(1) **MRI** brain image, (2) cardiac **MRI**

The **MRI** machine uses powerful magnets to produce detailed

images of the inside of the body.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym: procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

medication

n. a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

synonym: cure, drug, medicine

(1) antibiotic **medication**, (2) **medication** by mouth

The pharmacist not only prescribes the **medication** but also guides its proper use.

meditation

n. the act of focusing one's mind on a particular object or thought; activity to train attention and achieve a mentally clear and emotionally calm and stable state

synonym: contemplation, reflection, introspection

(1) **meditation** training, (2) religious **meditation**

The **meditation** instructor guided the group through the relaxation and breathing exercises.

psychoactive

adj. producing an effect on mental processes, such as mood, perception, or behavior; capable of affecting the mind or emotions

synonym: mind-altering, mind-bending, hallucinogenic

(1) **psychoactive** medication, (2) **psychoactive** effects

Psychoactive substances can seriously affect the brain and must be used cautiously.

byte

n. a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a

small amount of computer code

(1) **byte** code, (2) **byte** array

The computer hard drive had plenty of storage space but was running low on available **bytes**.

colonoscopy

n. a medical procedure in which a flexible tube with a camera on its end is inserted into the rectum to examine the colon for potential abnormalities or diseases

synonym: colon examination, bowel scope, colonography

(1) **colonoscopy** screening, (2) virtual **colonoscopy**

He had to undergo a **colonoscopy** as part of his routine medical check-up.

stick

v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

synonym: pierce, adhere, stay

(1) **stick** a key in a lock, (2) fire **stick**

You **stick** a bill in the change machine, and the coins pop out.

virtual

adj. being actually such in almost every respect; existing in essence or effect though not in actual fact

synonym: practical

(1) a **virtual** image, (2) trading of **virtual** currencies

She is the **virtual** president of the company.

radiology

n. the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

synonym: medical imaging, radiography, radioscopy

(1) interventional **radiology**, (2) diagnostic **radiology**

The patient underwent a **radiology** scan to diagnose their medical condition.

patient

n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

synonym : client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss

The doctor carefully examined the **patient's** medical history.

colon

n. the punctuation mark (:) used to introduce a list, summary, explanation, etc., or before reporting what someone has said; a significant part of the large intestine, the final section of the digestive system

(1) **colon** examination, (2) the **colon** at the end of the sentence

Consumption of vegetables may aid in the prevention of **colon** cancer.

augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym : boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity

Economic factors and monetary policy **augmented** inflation.

identify

v. to recognize someone or something and say or prove who or what they are

synonym : determine, specify, recognize

(1) **identify** handwriting, (2) **identify** gene sequences

I will introduce you to how to **identify** the leading causes of the malfunction.

lesion

n. a damaged or abnormal area of tissue in the body, usually caused by injury or disease

synonym : injury, wound, damage

(1) muscle **lesion**, (2) brain **lesion**

The doctor examined the **lesion** on the patient's skin to determine if it was cancerous.

AI

n. (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

synonym: robot, machine learning, neural network

(1) **AI** expert, (2) apply **AI** technology to art

The evolution of processors has dramatically improved the performance of **AI**.

encourage

v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

synonym: facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior

They **encouraged** customers with a premium for loyal patronage.

paradigm

n. a standard or typical example of something; a pattern or model

synonym: example, standard, epitome

(1) major **paradigm** shift, (2) cultural **paradigm**

He postulated a completely different **paradigm** to explain all these phenomena.

shift

n. a slight transition in position, direction, or trend

synonym: transition, change, modification

(1) Doppler **shift**, (2) major paradigm **shift**

Could you help me **shift** some furniture?

integrate

v. to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups

synonym: mix, merge, combine

(1) **integrate** into the existing system, (2) **integrate** both

businesses

He found that it is difficult to **integrate** socially.

biomedical

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

synonym : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

Biomedical engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

wireless

adj. of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals

synonym : cordless, radio

(1) **wireless** access, (2) **wireless** charging

The office's **wireless** network allows employees to work from anywhere in the building.

digital

adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

synonym : numerical, computerized, cyber

(1) a **digital** watch, (2) **digital** electronic signature

Sensors convert physical phenomena into **digital** signals.

stethoscope

n. a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds

synonym : medical instrument, auscultation device

(1) medical **stethoscope**, (2) electronic **stethoscope**

The **stethoscope** examination helped the doctor detect the irregular heartbeat of the patient.

obvious

adj. easy to see, discover or understand

synonym : apparent, conspicuous, evident

(1) **obvious** reasons, (2) his conclusion was **obvious**

There are **obvious** differences between the two wine-producing regions.

handheld

adj. designed to be held in one hand; portable, and compact enough to be carried or used on the go

synonym : portable, mobile, compact

(1) **handheld** device, (2) **handheld** camera

The technician used a **handheld** tool to fix the machine.

ultrasound

n. higher frequency sound than humans can hear

(1) **ultrasound** meter, (2) **ultrasound** scan

An **ultrasound** scan showed that the baby was a girl.

supplant

v. to replace or take the place of something or someone, often by force or through strategic maneuvering; to make obsolete or obsolete by introducing a superior or more advanced alternative

synonym : replace, supersede, displace

(1) **supplant** traditional methods, (2) **supplant** current technology

The young startup aims to **supplant** the established players in the industry through innovation.

euro

n. the official currency of most European Union countries

(1) the value of the **Euro**, (2) **Euro** crises

Some countries may leave the **Euro**.

device

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym : gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of

battery.

advent

n. the arrival or beginning of something; the coming of Jesus Christ at his birth

synonym: coming, arrival, approach

(1) **advent** calendar, (2) celebrate the **advent** of spring

The **advent** of the internet has dramatically changed the way we communicate.

electron

n. a tiny particle with the negative electrical charge

synonym: negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

medical

adj. relating to the treatment of illness or injuries; relating to the practice of medicine

synonym: health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.

crowdsourcing

n. the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet

(1) **crowdsourcing** apps, (2) **crowdsourcing** in climate policy

The company used this **crowdsourcing** platform to gather ideas for its next product.

approve

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

synonym: accept, authorize, agree

(1) **approve** a measures, (2) unanimously **approve** a resolution

My boss wouldn't **approve** of the plan.

reliable

adj. worthy of being relied on; trustworthy

synonym: dependable, trustworthy, dedicated

(1) **reliable** access, (2) guarantee **reliable** delivery

Trains are **reliable**, inexpensive, and ideal for long-distance travel.

champion

n. someone who has won first place in a competition; someone who fights for a specific group of people or a belief

synonym: victor, winner, fighter

(1) a **champion** of peace, (2) the grand **champion**

The **champion** bicyclist outrode all his competitors.

jeopardy

n. the state of being in danger or at risk of harm or loss

synonym: danger, risk, peril

(1) put his life in **jeopardy**, (2) tax in **jeopardy**

The project is in **jeopardy** of being canceled due to a lack of funding.

cloud-computing

n. the practice of using a network of remote servers hosted on the internet to store, manage, and process data, rather than a local server or personal computer

synonym: on-demand computing, internet-based computing, remote computing

(1) **cloud-computing** infrastructure, (2) **cloud-computing** services

The adoption of **cloud-computing** has revolutionized the IT industry, making it more accessible and affordable.

decision

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

synonym: choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

develop

v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

synonym: evolve, progress, advance

(1) **develop** a strategy, (2) **develop** a skill

We must **develop** a new system to streamline our workflow and increase efficiency.

complexity

n. the state or quality of being complicated or intricate and difficult to understand

synonym: intricacy, sophistication, elaboration

(1) cognitive **complexity**, (2) **complexity** theory

The project's **complexity** made it difficult for the team to complete it on time.

presence

n. the fact or state that someone or something exists, occurs, or is present

synonym: existence, actuality, fact

(1) the evidence of the **presence**, (2) his majestic **presence**

The path to a solid online **presence** necessitates a high technical ability.

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

(1) **interact** directly with customers, (2) **interact** with one another

He should **interact** more with his colleagues.

provider

n. a person or an organization that supplies somebody with something needed or wanted

synonym: supplier

(1) an information **provider**, (2) the **provider** of the family

People select Internet **providers** not only in terms of price but also in terms of transmission speed.

laceration

n. a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury

synonym: tear, cut, gash

(1) **laceration** to skin, (2) multiple **lacerations**

The deep **laceration** on my arm required several stitches to close.

emergency

n. a sudden unforeseen crisis usually involving danger that requires immediate action

synonym: crisis, trouble, difficulty

(1) **emergency** action, (2) acute **emergency**

The president declared a state of **emergency**.

hack

v. to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks

synonym: cut, chop, crack

(1) **hack** through the jungle, (2) **hack** into the program

This blog offers a variety of tips for **hacking** everyday life.

stroke

n. a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.

synonym: blow

(1) suffer **stroke**, (2) a **stroke** of the putter

This year's extreme heat has resulted in many heat **stroke** cases.

detection

n. the act of discovering or identifying the presence of something

synonym: discovery, identification, recognition

(1) **detection** by the security software, (2) importance of early **detection**

This smartphone has a collision **detection** function.

hematology

n. the branch of medical science deals with the study of blood and its components, including blood diseases and

disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system

synonym : study of blood, blood science, hemopathology

(1) **hematology** finding, (2) **hematology** department

The medical lab specializes in **hematology** testing and analysis.

clinic

n. a building or hospital department where people can go for medical care or advice, especially of a particular condition

synonym : hospital, infirmary

(1) visit to the veterinary **clinic**, (2) a dental **clinic**

She holds a **clinic** on Tuesday mornings.

suite

n. a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person

synonym : set, series, collection

(1) **suite** room, (2) **suite** of products

The presidential **suite** is the most luxurious room in the hotel.

tweet

n. a short, high sound made by a small bird; a message sent using Twitter, the social media application

synonym : peep, chirp, post (on Twitter)

(1) a chick's **tweet**, (2) his latest **tweets**

We could hear the **tweet** of baby birds.

cuff

n. a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand, typically to the head or ear

synonym : bracelet, handcuff, shackle

(1) **cuff** bracelet, (2) soft **cuff**

The doctor used a blood pressure **cuff** to measure my vitals.

gamut

n. the complete range or scope of something; the entire spectrum or extent of a particular quality, emotion, or situation

synonym: range, spectrum, array

(1) musical **gamut**, (2) **gamut** of jobs

The actress's performance ran the **gamut** of emotions, from anger to joy to sorrow.

kludge

n. a piece of hardware, software, or system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem

synonym: hack, workaround, makeshift solution

(1) **kludge** solution, (2) **kludge** code

The old printer was connected to the computer with a **kludge** of cables and adapters.

patch

n. a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose

synonym: mend, repair, fix

(1) **patch** of grass, (2) software **patch**

I need to sew a **patch** onto my jeans that ripped.

rhythm

n. a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing

synonym: beat, cadence, tempo

(1) in samba **rhythm**, (2) irregular heart **rhythm**

He beat out a jazz **rhythm** on the cajones.

quantify

v. to express or measure something in numerical terms

synonym: measure, express, determine

(1) **quantify** the results, (2) **quantify** blood flow

He tried to **quantify** the amount of product that was needed to complete the job.

consume

v. to spend something, especially fuel, energy, or time, in a large amount

synonym: absorb, ingest, use up

(1) **consume** a large of alcohol, (2) **consume** electricity

A smaller car will **consume** less fuel.

calorie

n. unit of heat defined as the quantity of heat required to raise the temperature of 1 gram of water by 1 degree Celsius at atmospheric pressure, used by nutritionists to measure how much energy food will produce

(1) **calorie** calculation, (2) reduce my **calorie** intake

It would be best if you burned off **calories** through vigorous exercise.

basis

n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

synonym: foundation, base, ground

(1) on an equal **basis**, (2) **basis** for calculation

This evidence will form the **basis** for our discussion.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym: proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully

They used a special receiver to **monitor** police radio channels.

pulse

n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

synonym: beat, vibration, throb

(1) a weak **pulse**, (2) **pulse** waves

The cardiac monitor displays the intensity of your **pulse**.

argue

v. to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

synonym : debate, dispute, quarrel

(1) **argue** a case, (2) **argue** passionately

The couple began to **argue** over which restaurant to go to for dinner.

engine

n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose

synonym : motor, locomotive, driver

(1) a steam **engine**, (2) an air-cooled **engine**

The policies he announces can be the **engine** of economic growth in the country.

probable

adj. likely to happen or likely to be true

synonym : likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire

It seems **probable** that he has forgotten our scheduled meeting.

diaper

n. a soft, absorbent piece of material worn by babies and young children around their waist and between their legs to catch urine and feces

synonym : napkin, nappy

(1) **diaper** bag, (2) cloth **diaper**

I need to buy a pack of **diapers** for my baby before we run out.

enabling

adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity

synonym : facilitating, empowering, authorized

(1) **enabling** infrastructure, (2) **enabling** mindset

Enabling technologies allows people with disabilities to lead more independent lives.

surgeon

n. a doctor who is trained to perform medical operations that involve cutting open a person's body

synonym : sawbones, doctor

(1) an excellent brain **surgeon**, (2) army **surgeon**

He is a skilled **surgeon** that has many years of training and experience.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym : automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

surgery

n. medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

synonym : operation, (medical) procedure

(1) cardiac **surgery**, (2) the professor of **surgery**

He had undergone heart **surgery** years before.

lens

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

synonym : glass

(1) a convex **lens**, (2) a **lens** with a wide angle

The photographer took this photo using a telephoto **lens**.

tumor

n. a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

synonym : neoplasm, mass, lump

(1) **tumor** growth, (2) **tumor** at remote sites

The patient was diagnosed with a **tumor** in her lung.

vessel

n. a ship or large boat

synonym : boat, ship, craft

(1) blood **vessels**, (2) naval **vessels**

The **vessel** arrived in port the following day.

scar

n. a mark that remains on the skin after a wound has healed

synonym : blemish, imperfection, blotch

(1) burn **scar**, (2) carry a **scar**

Even after the wound has healed, a **scar** remains.

endoscope

n. a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually

(1) medical **endoscope**, (2) flexible **endoscope**

The doctor used a diagnostic **endoscope** to examine the patient's stomach during the medical procedure.

stomach

n. the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach

synonym : belly, abdomen, gut

(1) upset **stomach**, (2) **stomach** virus

I have a **stomach** ache after overeating junk food.

gallbladder

n. a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion

synonym : cholecyst

(1) **gallbladder** surgery, (2) **gallbladder** disease

Eating a fatty meal can trigger **gallbladder** pain in some people.

mediate

v. to try to bring about an agreement or understanding between people who are in conflict

synonym : arbitrate, reconcile, intervene

(1) **mediate** allergic reaction, (2) **mediate** a negotiation

The teacher had to **mediate** a disagreement between two students over a stolen pencil.

paraplegia

n. a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system

synonym : spinal cord injury, paralysis

(1) **paraplegia** treatment, (2) traumatic **paraplegia**

After his accident, he was left with **paraplegia** and had to use a wheelchair.

interface

n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

synonym : junction, surface, UI

(1) **interface** between gas and liquid, (2) the user **interface**

Detergent weakens the surface tension at the **interface** of two liquids.

motor

n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

synonym : actuator, engine, machine

(1) a **motor** mechanic, (2) DC **motor** control

Energy-efficient **motors** are needed to maximize the cruising distance of electric vehicles.

cortex

n. the outermost layer of an organ, especially the brain

(1) **cortex** cells, (2) visual **cortex** neuron

The cerebral **cortex** consists of six layers.

quadriplegia

n. paralysis of all four limbs and the torso, usually resulting from injury to the spinal cord in the neck region

(1) **quadriplegia** patients, (2) **quadriplegia** care

After the accident, he had **quadriplegia** and could not move his arms or legs.

cursor

n. a visual representation on a computer screen that is controlled by a mouse or other pointing device and is used to indicate where the next action or input will occur, typically in the form of an arrow or other icon

synonym : pointer, indicator, marker

(1) **cursor** movement, (2) blinking **cursor**

The **cursor** on a map app shows your location and allows you to navigate.

wheelchair

n. a chair fitted with large wheels for use as a means of transport by a person who is unable to walk

(1) electric-powered **wheelchair**, (2) **wheelchair** accessibility

This library rents out various types of folding **wheelchairs** for visitors.

clinical

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

synonym : dispassionate, analytic, scientific

(1) **clinical** surgery, (2) participate in **clinical** trials

She received special **clinical** training at the hospital.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym : exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

bionic

adj. relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original

(1) **bionic** exoskeleton, (2) **bionic** technology

The soldier was fitted with a **bionic** arm after losing him in combat.

limb

n. an arm and leg of a person or animal

synonym: arm, appendage, branch

(1) a prosthetic **limb**, (2) **limb** amputation

You should wrap the bandage carefully and firmly around the injured **limb**.

dean

n. a person in charge of a college, faculty, or other academic departments, tasked with overseeing its operations, policies, and staff; a senior member of a profession or organization who is highly respected for their knowledge and experience

synonym: head, director, chancellor

(1) **dean's** list, (2) **dean** of faculty

The university's **dean** was responsible for overseeing the academic programs and policies.

colleague

n. one of a group of a coworker, especially in a profession or a business

synonym: coworker, associate, fellow

(1) collaborate with **colleagues**, (2) former **colleague**

I decided to seek counseling on the advice of my **colleague**.

degree

n. a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

synonym: level, qualification, diploma

(1) bachelor's **degree**, (2) **degree** centigrade

She received her **degree** in psychology from the university.

dexterity

n. skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems

synonym: skillfulness, agility, expertise

(1) **dexterity** with the pen, (2) manual **dexterity**

The surgeon's **dexterity** was impressive during the delicate surgery.

- folk** *n.* people in general, especially those of a particular group or type
synonym: community, family, person
(1) **folk** art, (2) the **folk** songs of a particular district
Some seaweed was used as **folk** medicine in ancient times.
- strap** *n.* a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport
synonym: band, belt, sling
(1) leather **strap**, (2) camera **strap**
The athlete tightened the **strap** on his running shoes before the race.
- exoskeleton** *n.* a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
synonym: chitin, exocuticle, carapace
(1) **exoskeleton** suit, (2) robotic **exoskeleton**
The **exoskeleton** of the crab protects it from predators and environmental changes.
- bound** *v.* to move forward by leaps and bounds; to form the boundary of something
synonym: jump, bounce, leap
(1) **bounded** with delight, (2) **bound** up a staircase
Canada **bounds** on the United States.
- definition** *n.* a concise explanation of the meaning of a word, phrase, or symbol
synonym: description, connotation, meaning
(1) a precise **definition**, (2) the **definition** of a word
Parallel lines are, by **definition**, lines on the same plane that never cross.

accident

n. an unfortunate event, especially one causing damage or injury

synonym: calamity, casualty, chance

(1) cause an **accident**, (2) injury in a car **accident**

The **accident** partially destroyed my vehicle.

prosthetic

adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant

(1) have **prosthetic** arms, (2) **prosthetic** limbs

New **prosthetic** joints are less prone to metal poisoning.

obesity

n. the condition of being significantly overweight, typically defined as having a body mass index (BMI) of 30 or greater.

synonym: overweight, corpulence, fattiness

(1) **obesity-related** diseases, (2) suffer from **obesity**

The prevalence of **obesity** has increased significantly in recent years.

trend

n. a general direction in which something is changing or developing

synonym: direction, movement, tendency

(1) an international **trend**, (2) the **trend** away from television

The oil price continued their downward **trend**.

fantastic

adj. extremely good; excellent

synonym: incredible, unbelievable, marvelous

(1) a **fantastic** dress, (2) absolutely **fantastic** event

The new amusement park ride was **fantastic**, with twists, turns, and drops that left riders screaming with excitement.

voyage

n. a long journey, especially by sea or in space

synonym: journey, trip, excursion

(1) a **voyage** of discovery, (2) take a **voyage**

The astronaut trained for years before embarking on her **voyage** to the International Space Station.

swallow

v. to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations

synonym: consume, gulp, inhale

(1) **swallow** a handful of pills, (2) a **swallow** tail

I **swallowed** my anger and kept quiet.

tract

n. a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body

synonym: region, area, tube

(1) a urinary **tract** infection, (2) a **tract** of virgin forest

The farmer owns a large **tract** of land where he grows corn and soybeans.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed

The corporation **eventually** dominated the entire tobacco business.

autonomous

adj. capable of governing or controlling its affairs

synonym: independent, self-governing, self-reliant

(1) development of **autonomous** vehicles, (2) an **autonomous** judiciary

Five of the six provinces will become **autonomous** regions under the new federal system of government.

invasive

adj. spreading very quickly, and often aggressively, and difficult to stop

synonym: aggressive, rampant, spreading

(1) **invasive** breast cancer, (2) **invasive** species

The **invasive** disease can spread quickly and potentially cause a global pandemic.

assemble

v. to collect in one place as a single group

synonym: gather, congregate, collect

(1) **assemble** your colleagues, (2) **assemble** a jigsaw puzzle

The president began to **assemble** an army.

cardiac

adj. of or relating to the heart or heart disease

(1) **cardiac** arrest, (2) **cardiac** disease

The **cardiac** output of a resting adult is around three quarts per minute.

pacemaker

n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

synonym: heartbeat regulator, pacer, pacesetter

(1) implanted **pacemaker**, (2) **pacemaker** battery

Some people with **pacemakers** may need to avoid certain activities or sources of electromagnetic interference.

intervention

n. the action or process of being done to improve or help a circumstance, often they have not been asked to do so

synonym: interference, intercession, treatment

(1) **intervention** by foreign powers, (2) surgical

intervention

This **intervention** does not require the patient's consent.

cardiologist

n. a medical doctor who specializes in the study and treatment of the heart and the circulatory system

synonym: heart doctor, heart specialist, cardiac specialist

(1) **cardiologist** appointment, (2) skilled **cardiologist**

My grandfather is seeing a **cardiologist** to monitor his heart condition.

telemetry

n. the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control

purposes

synonym : data transmission, remote measurement

(1) **telemetry** technology, (2) **telemetry** system

The satellite sends **telemetry** data back to Earth to help scientists study the atmosphere.

remotely

adv. at a distance; not directly or easily accessible

synonym : distantly, remotely, slightly

(1) **remotely** operate, (2) control **remotely**

The company can **remotely** access its employees' computers for troubleshooting purposes.

shrink

v. to become smaller, or to make something smaller in size or amount

synonym : decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

prototype

n. a first or preliminary example of something such as a device or vehicle from which other forms are developed

synonym : mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**

The flying car is presently in the **prototype** stage.

penny

n. a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent

synonym : cent, coin, copper

(1) **penny** stock, (2) save a **penny**

I found a lucky **penny** on the ground while walking to work this morning.

artificial

adj. not natural and made by human beings; not real but produced to resemble something

synonym : synthetic, man-made, manufactured

(1) **artificial** flowers, (2) **artificial** environment

The **artificial** intelligence system has revolutionized the way we live and work.

retina

n. the innermost light-sensitive membrane covering the back wall of the eyeball

(1) **retinal** cells, (2) **retina** scanner

Damage to the **retina** may play a role in the development of glaucoma.

array

n. a large group or collection of things or people, especially one that is impressive or attractive

synonym: collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops

The customer on the Internet has to choose one from a formidable **array** of products.

eyeball

n. the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen

(1) **eyeball** motion, (2) redness of the **eyeball**

Increased **eyeball** pressure leads to the development of glaucoma.

blind

adj. unable to see; unable or unwilling to perceive or understand the true nature of something

synonym: sightless, unseeing, random

(1) **blind** to the beauties, (2) **blind** spot

She was nearly **blind** due to severe diabetes.

sight

n. the ability to see; anything that is seen

synonym: vision, spectacle, view

(1) an unexpected **sight**, (2) dull **sight**

Many famous **sights** are within walking distance.

assist

v. to help someone in doing anything

synonym: help, support, aid

(1) **assist** a patient, (2) **assist** his goal

Please **assist** her with the furniture relocation.

Bluetooth

n. a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers

(1) **Bluetooth** connection, (2) **Bluetooth-enabled** device
I need a **Bluetooth** headset for my conference calls.

beam

n. a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source

synonym : ray, ray of light, shaft of light

(1) **beam** of light, (2) a structural **beam** of a building

The sun's **beam** shone through the window and illuminated the room.

maintain

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

synonym : preserve, uphold, sustain

(1) **maintain** order, (2) **maintain** good health

I need to **maintain** my car regularly to prevent any major mechanical issues.

diet

n. the food and drink that a person, animal, or community eats and drinks regularly; a legislative assembly in certain countries, for example, Japan

synonym : food, dietary

(1) eat a vegetarian **diet**, (2) **Diet** approval

A balanced **diet** is more important for health than supplements.

imagery

n. the use of words or pictures in books, photographs, paintings, etc., that produces pictures in the minds of people; the ability to form mental images of things or

events

synonym : metaphors, symbolism, imaging

(1) visual **imagery**, (2) satellite **imagery**

This movie is famous for its romantic **imagery**.

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym : infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

lumber

n. wood that has been sawn or cut into planks, boards, or other structural shapes for use in construction; the act of moving heavily or clumsily

synonym : timber, wood, logs

(1) **lumber** industry, (2) rough **lumber**

The **lumber** yard had a wide selection of wood for building and construction.

laboratory

n. a workplace for doing scientific research or teaching science; a lab

synonym : lab, workshop, testing room

(1) **laboratory** accident, (2) anthropology **laboratory**

Animal protection groups call for an end to animal testing in a **laboratory**.

fluid

n. a substance that can flow and is not solid

synonym : liquid, aqua, sap

(1) plenty of **fluids**, (2) **fluid** assets

She was diagnosed with a **fluid** buildup in her lungs.

quake

v. to shake or vibrate violently and for a short time

synonym : shake, trembler, tremor

(1) **quake** in his boots, (2) **quake** with cold

The earth began to **quake**, and he knew he had to leave the

building immediately.

replace

v. to take the place of something

synonym: substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone
Eventually, the new design will **replace** all older models.

lab

n. a workplace for the conduct of scientific research; a laboratory

synonym: workshop, laboratory, research chamber

(1) **lab** instrument, (2) medical **lab**

The Prime Minister will pay a courtesy visit to the Nobel laureate's **lab**.

technique

n. a particular way or art of doing something that needs skill

synonym: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

rural

adj. of or relating to the countryside

synonym: agrarian, country, rustic

(1) **rural** accents, (2) people in **rural** areas

Many **rural** areas are still impoverished.

underserved

adj. inadequately or insufficiently provided with help, products, or services

(1) **underserved** market, (2) traditionally **underserved**

This area is medically **underserved**.

pathway

n. a track that constitutes or serves as a path; an approach or a way of doing something

synonym: route, footpath, trail

(1) **pathway** to understanding, (2) cellular signaling **pathways**

When the first molecule in the **pathway** receives a signal, it activates other molecules.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym : resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

clot

n. a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force

synonym : clump, coagulation, thrombus

(1) blood **clot**, (2) **clot** prevention

The **clot** in the blood vessel required immediate medical attention.

artery

n. one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.

synonym : blood vessel, channel, roadway

(1) **artery** blockage, (2) risk of coronary **artery** disease

Continuous consumption of fatty foods leads to the hardening of the **artery**.

disk

n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music

synonym : record, platter, plate

(1) **disk** drive, (2) **disk** space

The computer's hard **disk** was full, so she had to delete some files.

blockbuster

n. a movie, book, or other product that is extremely successful and popular, especially one that makes much

money

synonym: hit, success, smash

(1) **blockbuster** movie, (2) international **blockbuster**

The new action movie is expected to be a **blockbuster** hit.

individual

n. a single person or thing, as distinct from a group

synonym: person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

indicate

v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

synonym: hint, suggest, show

(1) **indicate** a preference, (2) **indicate** an error

The data **indicates** that the company's profits have steadily increased over the past quarter.

macula

n. a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision

synonym: center of the retina, spot, eyespot

(1) **macula** lutea, (2) damage to the **macula**

There are several treatment options available for patients with **macula-related** disorders.

degenerate

v. (of a person, animal, or plant) to become worse in health or physical condition

synonym: deteriorate, decline, decay

(1) **degenerate** into a disagreement, (2) **degenerate** into recession

The once-thriving city has **degenerated** into a crime-ridden slum.

upload

v. to transfer digital data or files from a local computer or device to a remote server or network; the act of transferring such data or files

synonym: transfer, load up

(1) **upload** files, (2) **upload** documents to the portal

I need to **upload** these pictures to my computer to edit them.

decode

v. to convert something, such as a message or piece of information, from a specific form into one that you can understand

synonym: decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences

The software could **decode** the encrypted data and reveal the hidden information.

dessert

n. a sweet food served as the last course of a meal

synonym: sweet, cake, confection

(1) **dessert** knife, (2) easy **dessert** recipe

Let's go to an all-you-can-eat **dessert** restaurant.

pharmacogenomics

n. the study of how genes affect an individual's response to drugs and other treatments, particularly in the context of personalized medicine

(1) **pharmacogenomics** technology,

(2) **pharmacogenomics** testing

The **pharmacogenomics** industry is growing rapidly due to its immense potential.

modulate

v. to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something

synonym: regulate, inflect, adjust

(1) **modulate** the function, (2) **modulate** from one key to another

These chemicals **modulate** the effect of metabolism.

increasingly

adv. more and more

synonym : more and more, progressively

(1) **increasingly** become common, (2) face **increasingly** complicated challenges

Our company found it **increasingly** difficult to keep up with the competition.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym : atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

exposure

n. the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret

synonym : vulnerability, disclosure, uncovering

(1) a southern **exposure**, (2) the **exposure** of a fraud

The long **exposure** to the air tarnished the antique tableware.

exposed

adj. having no protection or shield from something, such as bad weather, attack, or criticism

synonym : endangered, revealed, disclosed

(1) **exposed** to radiation, (2) an **exposed** rock

Tech companies often employ **exposed** ducts and other materials in their office interiors.

capture

v. to catch a person or an animal and confine them in an area which they cannot escape

synonym : catch, arrest, imprison

(1) **capture** a glimpse, (2) **capture** customers' hearts

I was able to **capture** the moment on film.

proteome

n. the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications

(1) bacterial **proteome**, (2) **proteome** database
Scientists are studying the human **proteome** to understand better how proteins work in the body.

stream

n. a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

synonym: flow, current, brook

(1) the **stream** of time, (2) an endless **stream** of cars
Jet **streams** are the common name for air currents that form high in the atmosphere.

individually

adv. separately or apart from others

synonym: separately, one by one, independently

(1) answer questions **individually**, (2) **individually** designed product

Each department has done its product costing **individually**.

biomarker

n. a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

synonym: indicator, measure, signature

(1) diabetes **biomarker**, (2) **biomarker** discovery

The **biomarker** test showed that the patient was responding well to the treatment.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

lee

n. the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind

synonym: shelter, refuge, hideout

(1) a natural **lee**, (2) the **lee** of the building

The hiker found a calm spot in the **lee** of the mountain to set up camp.

hood

n. a covering for the head and neck, especially one attached to a garment

synonym: hoodie, cowl, cloak

(1) **hood** ornament, (2) a silk **hood**

He pulled his waterproof **hood** up to protect himself from the rain.

predict

v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

synonym: forecast, anticipate, foresee

(1) **predict** the future, (2) **predict** when she will arrive

It's notoriously challenging to **predict** birth rates.

participate

v. to take part in something

synonym: take part, partake, enter

(1) **participate** fully in conversation, (2) **participate** in the program

The majority of students actively **participated** in the college's intramural sports program.

nervous

adj. worried and anxious about something; relating to the nerves

synonym: neural, anxious, uneasy

(1) development of the **nervous** system, (2) get **nervous**

He suffers from **nervous** breakdowns.

hypertension

n. a medical condition characterized by abnormally high blood pressure in the arteries, often leading to an increased risk of heart disease, stroke, and other health problems

synonym: high blood pressure

(1) **hypertension** rate, (2) arterial **hypertension**

To lower **hypertension**, it is important to maintain a healthy diet and exercise regularly.

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

oncology

n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies

synonym: cancer treatment, study of tumors

(1) **oncology** center, (2) modern **oncology** treatment

The pharmaceutical company unveiled its latest breakthrough drug for the **oncology** market.

poison

n. a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly

synonym: toxin, venom, pollutant

(1) **poison** ivy, (2) **poison** bilateral relations

The plant's leaves contain a deadly **poison** that can cause hallucinations and seizures.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym: finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

stem

n. the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

synonym: branch, limb, (verb) come from

(1) **stem** from a belief, (2) the **stem** of a matchstick

A rose has thorns on its **stem**.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

relapse

n. the fact of becoming ill or starting to misbehave again after making an improvement

synonym: degeneration, deterioration, retrogression

(1) biochemical **relapse**, (2) **relapse** prevention

He had a **relapse** because he was working through the night.

whack

v. to hit someone or something hard or noisily

synonym: hit, strike, bash

(1) **whack** him with a stick, (2) **whack** up the volume

He **whacked** the ball out of the park with his home run.

specific

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

synonym: particular, definite, distinct

(1) **specific** instructions, (2) industry- **specific** regulations

The scientist conducted a study that provided **specific** details about the species' behavior.

cocktail

n. a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal

synonym : appetizer, beverage

(1) a light **cocktail**, (2) **cocktail** of chemicals

We invited some friends for a **cocktail** party.

embryonic

adj. of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

synonym : embryonal

(1) **embryonic** stem cells, (2) **embryonic** development

The project is still in its **embryonic** stage.

marrow

n. a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience

synonym : bone marrow, pith, center

(1) the **marrow** of a speech, (2) vegetable **marrow**

The soup was made with bone **marrow**, giving it a rich and savory flavor.

transplant

v. to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another

synonym : relocate, emigrate, graft

(1) **transplant** a heart, (2) **transplant** my family to America

He tried to **transplant** the seedling into a larger pot.

spinal

adj. of or relating to the spine (= the long bone in the body's back)

(1) **spinal** injury, (2) brain and **spinal** cord

The surgeon carefully confirmed how to remove the tumor to avoid damaging the **spinal** nerves.

cord

n. a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

synonym : wire, cable, string

(1) spinal **cord**, (2) electrical **cord**

Your spinal **cord** is located deep within your body.

injury

n. harm done to a person's or an animal's body caused by an accident or an attack

synonym : wound, damage, hurt

(1) without **injury**, (2) a fatal **injury**

My accidental **injury** got better right away.

phase

n. any stage in a series of events, change, or development

synonym : degree, stage, step

(1) enter on the last **phase**, (2) two- **phase** structure

The era of the industrial revolution was a crucial **phase** of history.

evolve

v. to develop gradually, or to cause the development of something or someone gradually

synonym : develop, mature, grow

(1) **evolve**, (2) **evolve** over the past decade

Eyeless fish **evolved** in dark caves.

cardiovascular

adj. of or relating to the heart and blood vessels (= tubes that carry blood around the body)

(1) **cardiovascular** diseases, (2) **cardiovascular** tissue

Smoking places you at severe risk of **cardiovascular** and respiratory disease.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym : purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

survival

n. the state of continuing to exist or live, frequently in the face of difficulty or danger

synonym : endurance, continuity

(1) **survival** ability, (2) **survival** food

He evaluated his chances for **survival** rather pessimistically.

invention

n. the creation of a new device or process resulting from study and experimentation; the act of inventing

synonym : creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**

Necessity is the mother of **invention**.

harvest

n. yields of plants in a single growing season; the period of the year when gathering occurs on a farm

synonym : crop, reaping, yield

(1) a scanty **harvest**, (2) reap a **harvest**

During **harvest**, farmers are incredibly busy.

hop

v. to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

synonym : jump, bounce, skip

(1) **hop** on one foot, (2) **hop** from one place to another

The rabbit **hopped** over the fence.

appreciate

v. to value and acknowledge the worth of someone or something; to be grateful for something or someone

synonym : acknowledge, admire, enjoy

(1) **appreciate** her feedback, (2) **appreciate** the value

We would **appreciate** an early reply.

puncture

n. a small hole or wound made by piercing, such as with a needle, nail, or pointed object

synonym : piercing, prick, hole

(1) bicycle **puncture**, (2) needle **puncture**

The tire had a **puncture** and needed to be replaced.

anesthesia

n. a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes

(1) **anesthesia** for surgery, (2) local **anesthesia**

He is in general **anesthesia** under the surgeon.

embryo

n. an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed

synonym: fetus, seed, origin

(1) destruction of human **embryos**, (2) **embryo** cloning

Our latest project is still at the **embryo** stage.

reprogram

v. to modify or recreate a program

synonym: recreate, modify, revamp

(1) **reprogram** a device, (2) **reprogram** a database

He **reprogrammed** the computer's operating system to remove the safeguard.

pluripotent

adj. describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

synonym: versatile, all-purpose, adaptable

(1) **pluripotent** embryonic cells, (2) **pluripotent** gene expression

Pluripotent stem cells can differentiate into any cell in the body.

utilize

v. to use something for a practical purpose in an effective way

synonym: employ, use, operate

(1) **utilize** a different approach, (2) **utilize** a catheter

The cook **utilized** the leftover oxtail to make soup.

freezer

n. a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use

synonym: refrigerator, icebox, cooler

(1) portable **freezer**, (2) **freezer** bag

I put the ice cream in the **freezer** to keep it from melting.

myocyte

n. a type of muscle cell found in muscle tissue, responsible for contraction and movement

synonym: muscle cell, cardiac cell, heart cell

(1) cardiac **myocyte**, (2) skeletal **myocyte**

The cardiologist analyzed the **myocyte** cells in the patient's heart tissue.

neural

adj. of or relating to a nerve or the nervous system that includes the brain

synonym: sensory, neuron, nervous

(1) **neural** stem cells, (2) **neural** networks in AI

There was a disturbance of **neural** function.

cellular

adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

synonym: organic, biological, nuclear

(1) **cellular** and molecular biology, (2) a **cellular** phone handset

This factory employs a **cellular** manufacturing system.

miniature

adj. being on a very small scale

synonym: mini, scaled-down, pint-sized

(1) **miniature** camera, (2) **miniature** version

He did complicated pen-and-ink drawings like medieval **miniatures**.

decentralize

v. to move the power, control, or authority of an organization, government, or system from a single place to several smaller ones

synonym: deconcentrate, disperse, distribute

(1) **decentralize** authority, (2) **decentralize** organizational structure

We need to **decentralize** our data to recover quickly from a disaster.

empower

v. to give someone the power or authority to do something
synonym: authorize, endow, entitle

(1) **empower** my life, (2) **empower** the secretary to do the same

The company **empowered** employees to buy low-price items without approval to achieve efficient purchasing.

enhance

v. to increase or improve the quality, amount, or strength of someone or something

synonym: improve, enrich, refine

(1) **enhance** value, (2) **enhance** the flavor of the vanilla

The new strategy will **enhance** the profitability of our company.

thrill

n. a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion

synonym: exhilaration, delight, rush

(1) the **thrill** of speed, (2) incredible **thrill**

Skydiving is an overwhelming **thrill** for many people.

bow

v. to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows

synonym: bend, curve, arch

(1) **bow** and greet, (2) a **bow** wave

She **bowed** to the audience after her performance.

Session 2: Spelling

- | | |
|--|--|
| 1. juvenile di_____es | <i>n.</i> a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood |
| 2. pro_____ic limbs | <i>adj.</i> of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant |
| 3. burn s__r | <i>n.</i> a mark that remains on the skin after a wound has healed |
| 4. immune fu_____on | <i>n.</i> the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose |
| 5. at___d a meeting | <i>v.</i> to be present at an event, to go to a place |
| 6. eve_____ly succeed | <i>adv.</i> finally, particularly after a long time or a lot of struggle, complications, and so on |
| 7. the cabin pressure fell dra_____lly | <i>adv.</i> in a very impressive manner |
| 8. spinal c__d | <i>n.</i> a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment |

ANSWERS: 1. diabetes, 2. prosthetic, 3. scar, 4. function, 5. attend, 6. eventually, 7. dramatically, 8. cord

9. yield cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
10. sh___k the tumor *v.* to become smaller, or to make something smaller in size or amount
11. cardiac M_l *n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
12. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
13. at___d service *v.* to be present at an event, to go to a place
14. ge_____gy chart *n.* the study of family history and the tracing of lineages
15. b__m of light *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
16. benign pa_____gy *n.* the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders
17. an_____e a chemical compound *v.* to think about in-depth and evaluate to discover essential features or meaning
18. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 9. curve, 10. shrink, 11. MRI, 12. technique, 13. attend, 14. genealogy, 15. beam, 16. pathology, 17. analyze, 18. brain

19. re___e a story *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
20. the tr__d away from television *n.* a general direction in which something is changing or developing
21. a southern ex____re *n.* the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret
22. people in ru__l areas *adj.* of or relating to the countryside
23. the l_e of the building *n.* the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind
24. exo_____on suit *n.* a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
25. give app_____le examples *adj.* fit or suitable to be applied; having relevance to a person or thing
26. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
27. field of gene th_____y *n.* the act of caring for someone through medication, remedial training, etc.

ANSWERS: 19. relate, 20. trend, 21. exposure, 22. rural, 23. lee, 24. exoskeleton, 25. applicable, 26. biology, 27. therapy

28. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
29. cloth di____r *n.* a soft, absorbent piece of material worn by babies and young children around their waist and between their legs to catch urine and feces
30. co____r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
31. b__e array *n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code
32. su_____nt current technology *v.* to replace or take the place of something or someone, often by force or through strategic maneuvering; to make obsolete or obsolete by introducing a superior or more advanced alternative
33. h__k through the jungle *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
34. ut_____e a catheter *v.* to use something for a practical purpose in an effective way
35. ha_____ld camera *adj.* designed to be held in one hand; portable, and compact enough to be carried or used on the go
36. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 28. complexity, 29. diaper, 30. confer, 31. byte, 32. supplant, 33. hack, 34. utilize, 35. handheld, 36. develop

37. en____ng infrastructure *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
38. blinking cu____r *n.* a visual representation on a computer screen that is controlled by a mouse or other pointing device and is used to indicate where the next action or input will occur, typically in the form of an arrow or other icon
39. industry-sp____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
40. AI expert *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
41. ca____e customers' hearts *v.* to catch a person or an animal and confine them in an area which they cannot escape
42. have ge____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
43. ar__e a case *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

ANSWERS: 37. enabling, 38. cursor, 39. specific, 40. AI, 41. capture, 42. genetic, 43. argue

44. a steam en___e *n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
45. pr____le outcome *adj.* likely to happen or likely to be true
46. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
47. co___x cells *n.* the outermost layer of an organ, especially the brain
48. plu_____nt embryonic cells *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
49. art_____al environment *adj.* not natural and made by human beings; not real but produced to resemble something
50. cardiac su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
51. d__k space *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
52. as_____le your colleagues *v.* to collect in one place as a single group
53. pa_____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

ANSWERS: 44. engine, 45. probable, 46. invention, 47. cortex, 48. pluripotent, 49. artificial, 50. surgery, 51. disk, 52. assemble, 53. patient

54. mo____r an exam *v.* to observe, check, and track the progress or quality of something over a period of time
55. di____es patient *n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood
56. plu____nt gene expression *adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
57. en____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
58. a st___e of the putter *n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.
59. a precise def____on *n.* a concise explanation of the meaning of a word, phrase, or symbol
60. di___e money equally *v.* to separate or cause to separate into parts or groups
61. medical ste____pe *n.* a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds
62. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment

ANSWERS: 54. monitor, 55. diabetes, 56. pluripotent, 57. engineer, 58. stroke, 59. definition, 60. divide, 61. stethoscope, 62. degree

63. army su____n *n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
64. cutting-edge bio_____al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
65. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
66. rec_____ct an image *v.* to build or form something again that has been damaged or destroyed
67. skeletal my_____e *n.* a type of muscle cell found in muscle tissue, responsible for contraction and movement
68. manual de_____ty *n.* skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
69. d__n's list *n.* a person in charge of a college, faculty, or other academic departments, tasked with overseeing its operations, policies, and staff; a senior member of a profession or organization who is highly respected for their knowledge and experience
70. su__e room *n.* a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person

ANSWERS: 63. surgeon, 64. biomedical, 65. predict, 66. reconstruct, 67. myocyte, 68. dexterity, 69. dean, 70. suite

71. guarantee re____le delivery *adj.* worthy of being relied on; trustworthy
72. the cell of the im___e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
73. bi___c technology *adj.* relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
74. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
75. pr____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
76. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
77. in____te the quality of his life *v.* to introduce new methods, ideas, or products
78. leather st__p *n.* a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport

ANSWERS: 71. reliable, 72. immune, 73. bionic, 74. detect, 75. process, 76. intelligence, 77. innovate, 78. strap

79. in_____te both businesses *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
80. black hole sin_____ty *n.* (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind
81. self-int_____ion *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
82. hem_____gy department *n.* the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system
83. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
84. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
85. te_____ry technology *n.* the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes

ANSWERS: 79. integrate, 80. singularity, 81. introduction, 82. hematology, 83. responsible, 84. genetic, 85. telemetry

86. major pa_____gm shift *n.* a standard or typical example of something; a pattern or model
87. ob_____s reasons *adj.* easy to see, discover or understand
88. psy_____ive effects *adj.* producing an effect on mental processes, such as mood, perception, or behavior; capable of affecting the mind or emotions
89. inc_____ze the right behavior *v.* to make someone want to do in a particular way by offering them a reward
90. sp_____l injury *adj.* of or relating to the spine (= the long bone in the body's back)
91. co_____e electricity *v.* to spend something, especially fuel, energy, or time, in a large amount
92. a selfish de_____on *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
93. a fa_____ic dress *adj.* extremely good; excellent
94. blood ve_____ls *n.* a ship or large boat
95. su_____al ability *n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
96. exp_____al function *adj.* becoming more and more rapid; of or involving mathematical exponents
97. bio_____ics tools *n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

ANSWERS: 86. paradigm, 87. obvious, 88. psychoactive, 89. incentivize, 90. spinal, 91. consume, 92. decision, 93. fantastic, 94. vessel, 95. survival, 96. exponential, 97. bioinformatics

98. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
99. take a vo___e *n.* a long journey, especially by sea or in space
100. face inc_____gly complicated challenges *adv.* more and more
101. complete a pr_____pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
102. re___a scanner *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
103. car_____lar tissue *adj.* of or relating to the heart and blood vessels (= tubes that carry blood around the body)
104. gl___e level *n.* a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things
105. sp_____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
106. development of aut_____us vehicles *adj.* capable of governing or controlling its affairs
107. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
108. in samba rh___m *n.* a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing

ANSWERS: 98. medicinal, 99. voyage, 100. increasingly, 101. prototype, 102. retina, 103. cardiovascular, 104. glucose, 105. specific, 106. autonomous, 107. evolve, 108. rhythm

109. st____h virus *n.* the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach
110. the ma____w of a speech *n.* a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience
111. lab____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
112. app____te her feedback *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
113. D__t approval *n.* the food and drink that a person, animal, or community eats and drinks regularly; a legislative assembly in certain countries, for example, Japan
114. im____e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
115. a fatal in____y *n.* harm done to a person's or an animal's body caused by an accident or an attack
116. in____ct directly with customers *v.* to communicate or react with somebody
117. ap____e a measures *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

ANSWERS: 109. stomach, 110. marrow, 111. laboratory, 112. appreciate, 113. diet, 114. immune, 115. injury, 116. interact, 117. approve

118. me__e those systems into a new one
v. to combine or integrate things, or to cause this to happen
119. pe__y stock
n. a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
120. healthy mit_____ria
n. (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food
121. su_____al food
n. the state of continuing to exist or live, frequently in the face of difficulty or danger
122. ins_____ize customary laws
v. to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
123. incredible th___l
n. a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
124. become ess_____ly same
adv. relating to the essential features or concepts of anything
125. qu__e in his boots
v. to shake or vibrate violently and for a short time
126. imp_____ion on stage
n. the act of making something up on the spot or creating or performing something without preparation
127. ind_____lly designed product
adv. separately or apart from others

ANSWERS: 118. merge, 119. penny, 120. mitochondria, 121. survival, 122. institutionalize, 123. thrill, 124. essentially, 125. quake, 126. improvisation, 127. individually

128. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
129. parallel com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
130. co___r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
131. an international tr__d *n.* a general direction in which something is changing or developing
132. enter on the last ph__e *n.* any stage in a series of events, change, or development
133. ess_____ly correct *adv.* relating to the essential features or concepts of anything
134. on_____gy center *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies
135. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves
136. in_____ce between gas and liquid *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
137. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation

ANSWERS: 128. responsible, 129. computation, 130. confer, 131. trend, 132. phase, 133. essentially, 134. oncology, 135. nervous, 136. interface, 137. improvisation

138. on an equal ba__s *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
139. evolutionary bi____y *n.* the scientific study of life and the natural processes of living things
140. local ane_____ia *n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
141. a very ta_____ed actor *adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area
142. reap a ha_____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
143. fr_____r bag *n.* a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use
144. a ce_____ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
145. clinical pa_____gy *n.* the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders
146. his latest tw__ts *n.* a short, high sound made by a small bird; a message sent using Twitter, the social media application

ANSWERS: 138. basis, 139. biology, 140. anesthesia, 141. talented, 142. harvest, 143. freezer, 144. cellular, 145. pathology, 146. tweet

147. injury in a car ac_____nt *n.* an unfortunate event, especially one causing damage or injury
148. genetic ha_____pe *n.* a specific combination of genetic variations or alleles that are inherited together on the same chromosome from a single parent, which is used to analyze genetic patterns and understand the inheritance of specific traits or diseases
149. consult with a ph_____an *n.* a medical doctor who practices medicine
150. ex_____ve editor at the publishing house *n.* a person or group of people with top-level management responsibility in a business or other organization; the branch that is responsible for implementing, administering, and enforcing laws, as well as running the day-to-day operations
151. ca_____e a glimpse *v.* to catch a person or an animal and confine them in an area which they cannot escape
152. naval ve_____ls *n.* a ship or large boat
153. im_____e the test score *v.* to make or become better
154. a dental cl_____c *n.* a building or hospital department where people can go for medical care or advice, especially of a particular condition
155. skilled car_____ist *n.* a medical doctor who specializes in the study and treatment of the heart and the circulatory system

ANSWERS: 147. accident, 148. haplotype, 149. physician, 150. executive, 151. capture, 152. vessel, 153. improve, 154. clinic, 155. cardiologist

156. water l__y *n.* a flowering plant with large, showy, trumpet-shaped flowers, typically symbolizing purity, innocence, and beauty
157. the value of the E__o *n.* the official currency of most European Union countries
158. E__o crises *n.* the official currency of most European Union countries
159. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
160. ind_____al freedom *n.* a single person or thing, as distinct from a group
161. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
162. bi___c exoskeleton *adj.* relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
163. learning cu__e *n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
164. ca_____e calculation *n.* unit of heat defined as the quantity of heat required to raise the temperature of 1 gram of water by 1 degree Celsius at atmospheric pressure, used by nutritionists to measure how much energy food will produce

ANSWERS: 156. lily, 157. euro, 158. euro, 159. smartphone, 160. individual, 161. intelligence, 162. bionic, 163. curve, 164. calorie

165. cro_____ing apps *n.* the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
166. qu__e with cold *v.* to shake or vibrate violently and for a short time
167. tu__r at remote sites *n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
168. en_____ge antisocial behavior *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
169. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
170. damage to the ma___a *n.* a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision
171. software pa__h *n.* a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose
172. und_____ed market *adj.* inadequately or insufficiently provided with help, products, or services
173. lac_____on to skin *n.* a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury

ANSWERS: 165. crowdsourcing, 166. quake, 167. tumor, 168. encourage, 169. environment, 170. macula, 171. patch, 172. underserved, 173. laceration

174. interventional ra_____gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
175. save a pe__y *n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
176. me_____e allergic reaction *v.* to try to bring about an agreement or understanding between people who are in conflict
177. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
178. ca_____c arrest *adj.* of or relating to the heart or heart disease
179. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
180. cellular signaling pa_____ys *n.* a track that constitutes or serves as a path; an approach or a way of doing something
181. ne___l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
182. au_____t immunity *v.* to increase the size, extent, quantity, etc. of something by adding something to it
183. re_____am a device *v.* to modify or recreate a program

ANSWERS: 174. radiology, 175. penny, 176. mediate, 177. eventually, 178. cardiac, 179. indicate, 180. pathway, 181. neural, 182. augment, 183. reprogram

184. res_____on of a conflict *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
185. ta_____ed athlete *adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area
186. accordance with app_____le law *adj.* fit or suitable to be applied; having relevance to a person or thing
187. a teacher's p_t *n.* an animal that you have at home as a companion and treated kindly
188. in_____te a new method *v.* to introduce new methods, ideas, or products
189. cu_____r of a library *n.* a person whose job is to manage the objects or artworks in a museum, art gallery, etc.
190. the advice of the ph_____an *n.* a medical doctor who practices medicine
191. di_____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
192. h_p on one foot *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

ANSWERS: 184. resolution, 185. talented, 186. applicable, 187. pet, 188. innovate, 189. curator, 190. physician, 191. digital, 192. hop

193. sw_____w a handful of pills *v.* to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations
194. arterial hyp_____ion *n.* a medical condition characterized by abnormally high blood pressure in the arteries, often leading to an increased risk of heart disease, stroke, and other health problems
195. co_____e a large of alcohol *v.* to spend something, especially fuel, energy, or time, in a large amount
196. le__r for reform *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
197. em_____ic stem cells *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
198. s__m from a belief *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
199. diabetes bi_____er *n.* a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

ANSWERS: 193. swallow, 194. hypertension, 195. consume, 196. lever, 197. embryonic, 198. stem, 199. biomarker

200. va___y bottom *n.* a long depression on the surface of the land, which typically contains a river
201. participate in cl_____al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
202. wh__k him with a stick *v.* to hit someone or something hard or noisily
203. answer questions ind_____lly *adv.* separately or apart from others
204. an ex_____d rock *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
205. a b_w wave *v.* to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows
206. irregular heart rh___m *n.* a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing
207. as___t a patient *v.* to help someone in doing anything
208. pr_____le cause of a fire *adj.* likely to happen or likely to be true
209. car_____lar diseases *adj.* of or relating to the heart and blood vessels (= tubes that carry blood around the body)
210. po___n bilateral relations *n.* a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly

ANSWERS: 200. valley, 201. clinical, 202. whack, 203. individually, 204. exposed, 205. bow, 206. rhythm, 207. assist, 208. probable, 209. cardiovascular, 210. poison

211. a urinary tr__t infection *n.* a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body
212. pha_____ics testing *n.* the study of how genes affect an individual's response to drugs and other treatments, particularly in the context of personalized medicine
213. a sw_____w tail *v.* to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations
214. dec_____ize authority *v.* to move the power, control, or authority of an organization, government, or system from a single place to several smaller ones
215. ge___e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
216. ca___r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
217. re_____le access *adj.* worthy of being relied on; trustworthy
218. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

ANSWERS: 211. tract, 212. pharmacogenomics, 213. swallow, 214. decentralize, 215. genome, 216. cancer, 217. reliable, 218. nanoscale

219. easy de_____t recipe *n.* a sweet food served as the last course of a meal
220. as____t his goal *v.* to help someone in doing anything
221. pa_____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
222. au_____t the reality *v.* to increase the size, extent, quantity, etc. of something by adding something to it
223. un__t needs *adj.* describing a need, goal, or expectation that has not been satisfied or fulfilled
224. par_____te fully in conversation *v.* to take part in something
225. bachelor's de____e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
226. a me_____l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
227. virtual col_____py *n.* a medical procedure in which a flexible tube with a camera on its end is inserted into the rectum to examine the colon for potential abnormalities or diseases
228. ro_____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

ANSWERS: 219. dessert, 220. assist, 221. patient, 222. augment, 223. unmet, 224. participate, 225. degree, 226. medical, 227. colonoscopy, 228. robotic

229. med_____on by mouth *n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease
230. un__t demand *adj.* describing a need, goal, or expectation that has not been satisfied or fulfilled
231. ey_____l motion *n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
232. bicycle pu_____re *n.* a small hole or wound made by piercing, such as with a needle, nail, or pointed object
233. rec_____ct the original text *v.* to build or form something again that has been damaged or destroyed
234. fl__d assets *n.* a substance that can flow and is not solid
235. traditional me_____al *adj.* of or relating to the treatment or cure of disease
236. em_____cy action *n.* a sudden unforeseen crisis usually involving danger that requires immediate action
237. b__e code *n.* a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code
238. pu__e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 229. medication, 230. unmet, 231. eyeball, 232. puncture, 233. reconstruct, 234. fluid, 235. medicinal, 236. emergency, 237. byte, 238. pulse

239. in_____ct with one another *v.* to communicate or react with somebody
240. put his life in je_____dy *n.* the state of being in danger or at risk of harm or loss
241. mo_____te the function *v.* to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
242. redness of the ey_____l *n.* the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
243. tu__r growth *n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
244. d__n of faculty *n.* a person in charge of a college, faculty, or other academic departments, tasked with overseeing its operations, policies, and staff; a senior member of a profession or organization who is highly respected for their knowledge and experience
245. whe_____ir accessibility *n.* a chair fitted with large wheels for use as a means of transport by a person who is unable to walk
246. the ad_____on of a plan *n.* the action or fact of legally taking another's child as one's own; the act of accepting with approval
247. a vo_____e of discovery *n.* a long journey, especially by sea or in space
248. par_____ia treatment *n.* a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system

ANSWERS: 239. interact, 240. jeopardy, 241. modulate, 242. eyeball, 243. tumor, 244. dean, 245. wheelchair, 246. adoption, 247. voyage, 248. paraplegia

249. ce_____ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
250. the grand ch_____on *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
251. a silk h__d *n.* a covering for the head and neck, especially one attached to a garment
252. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
253. absolutely fa_____ic event *adj.* extremely good; excellent
254. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
255. su_____s imagination *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
256. theory of com_____on *n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
257. flexible en_____pe *n.* a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually

ANSWERS: 249. cellular, 250. champion, 251. hood, 252. colleague, 253. fantastic, 254. stick, 255. surpass, 256. computation, 257. endoscope

258. Doppler sh__t *n.* a slight transition in position, direction, or trend
259. antibiotic med_____on *n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease
260. deg_____te into a disagreement *v.* (of a person, animal, or plant) to become worse in health or physical condition
261. ba__s for calculation *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
262. multiple lac_____ons *n.* a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury
263. a structural b__m of a building *n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
264. ca_____c disease *adj.* of or relating to the heart or heart disease
265. visual co___x neuron *n.* the outermost layer of an organ, especially the brain
266. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
267. up___d files *v.* to transfer digital data or files from a local computer or device to a remote server or network; the act of transferring such data or files

ANSWERS: 258. shift, 259. medication, 260. degenerate, 261. basis, 262. laceration, 263. beam, 264. cardiac, 265. cortex, 266. detect, 267. upload

268. inc_____le amount *adj.* unbelievable; enormous
269. a broken fr_____nt *n.* a small piece or part broken off or detached
270. his conclusion was ob_____s *adj.* easy to see, discover or understand
271. par_____te in the program *v.* to take part in something
272. soft c__f *n.* a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand, typically to the head or ear
273. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
274. re_____am a database *v.* to modify or recreate a program
275. ree_____er work processes *v.* to redesign or restructure something such as a machine, system, organization, etc.
276. without in____y *n.* harm done to a person's or an animal's body caused by an accident or an attack
277. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
278. ad_____on assistance *n.* the action or fact of legally taking another's child as one's own; the act of accepting with approval
279. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 268. incredible, 269. fragment, 270. obvious, 271. participate, 272. cuff, 273. scan, 274. reprogram, 275. reengineer, 276. injury, 277. amazing, 278. adoption, 279. evolve

280. interim cu____r *n.* a person whose job is to manage the objects or artworks in a museum, art gallery, etc.
281. ability to de___e the differences *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
282. two-ph__e structure *n.* any stage in a series of events, change, or development
283. ga__t of jobs *n.* the complete range or scope of something; the entire spectrum or extent of a particular quality, emotion, or situation
284. specific ha_____pe *n.* a specific combination of genetic variations or alleles that are inherited together on the same chromosome from a single parent, which is used to analyze genetic patterns and understand the inheritance of specific traits or diseases
285. ar___y blockage *n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
286. su__e of products *n.* a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person

ANSWERS: 280. curator, 281. decode, 282. phase, 283. gamut, 284. haplotype, 285. artery, 286. suite

287. musical ga__t *n.* the complete range or scope of something; the entire spectrum or extent of a particular quality, emotion, or situation
288. ult_____nd meter *n.* higher frequency sound than humans can hear
289. brain le___n *n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease
290. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
291. id_____fy handwriting *v.* to recognize someone or something and say or prove who or what they are
292. a chick's tw__t *n.* a short, high sound made by a small bird; a message sent using Twitter, the social media application
293. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
294. diagnostic ra_____gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
295. apply AI technology to art *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

ANSWERS: 287. gamut, 288. ultrasound, 289. lesion, 290. predict, 291. identify, 292. tweet, 293. disease, 294. radiology, 295. AI

296. bo__ded with delight *v.* to move forward by leaps and bounds; to form the boundary of something
297. in____ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
298. gal_____er surgery *n.* a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion
299. reduce my ca_____e intake *n.* unit of heat defined as the quantity of heat required to raise the temperature of 1 gram of water by 1 degree Celsius at atmospheric pressure, used by nutritionists to measure how much energy food will produce
300. tra_____nt my family to America *v.* to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another
301. muscle le____n *n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease
302. li____r trend *adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
303. wi_____ss access *adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals

ANSWERS: 296. bound, 297. invasive, 298. gallbladder, 299. calorie, 300. transplant, 301. lesion, 302. linear, 303. wireless

304. the th___l of speed *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
305. po___n ivy *n.* a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly
306. DC mo___r control *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
307. portable fr____r *n.* a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use
308. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
309. col_____py screening *n.* a medical procedure in which a flexible tube with a camera on its end is inserted into the rectum to examine the colon for potential abnormalities or diseases
310. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 304. thrill, 305. poison, 306. motor, 307. freezer, 308. nanoscale, 309. colonoscopy, 310. stick

311. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
312. qua_____gia patients *n.* paralysis of all four limbs and the torso, usually resulting from injury to the spinal cord in the neck region
313. de_____t knife *n.* a sweet food served as the last course of a meal
314. religious med_____on *n.* the act of focusing one's mind on a particular object or thought; activity to train attention and achieve a mentally clear and emotionally calm and stable state
315. a mo__r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
316. en_____e value *v.* to increase or improve the quality, amount, or strength of someone or something
317. biochemical re_____e *n.* the fact of becoming ill or starting to misbehave again after making an improvement
318. up___d documents to the portal *v.* to transfer digital data or files from a local computer or device to a remote server or network; the act of transferring such data or files
319. a profound in_____t *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like

ANSWERS: 311. prototype, 312. quadriplegia, 313. dessert, 314. meditation, 315. motor, 316. enhance, 317. relapse, 318. upload, 319. insight

320. the ex_____re of a fraud *n.* the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret
321. cro_____ing in climate policy *n.* the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
322. re_____e prevention *n.* the fact of becoming ill or starting to misbehave again after making an improvement
323. re____al cells *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
324. mo_____te from one key to another *v.* to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
325. sequencing of the human ge____e *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
326. tra_____nt a heart *v.* to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another
327. int_____ion by foreign powers *n.* the action or process of being done to improve or help a circumstance, often they have not been asked to do so

ANSWERS: 320. exposure, 321. crowdsourcing, 322. relapse, 323. retina, 324. modulate, 325. genome, 326. transplant, 327. intervention

328. a di_____t memory *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship
329. ma_____in order *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
330. de___e a message *v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
331. an aut_____us judiciary *adj.* capable of governing or controlling its affairs
332. electrical c__d *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
333. traditionally und_____ed *adj.* inadequately or insufficiently provided with help, products, or services
334. h_p from one place to another *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
335. ult_____nd scan *n.* higher frequency sound than humans can hear
336. l__y perfume *n.* a flowering plant with large, showy, trumpet-shaped flowers, typically symbolizing purity, innocence, and beauty
337. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

ANSWERS: 328. distant, 329. maintain, 330. decode, 331. autonomous, 332. cord, 333. underserved, 334. hop, 335. ultrasound, 336. lily, 337. function

338. mi_____re version *adj.* being on a very small scale
339. ane_____ia for surgery *n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
340. si_____n wafer *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
341. deg_____te into recession *v.* (of a person, animal, or plant) to become worse in health or physical condition
342. upset st_____h *n.* the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach
343. in_____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
344. wh__k up the volume *v.* to hit someone or something hard or noisily
345. visual im_____y *n.* the use of words or pictures in books, photographs, paintings, etc., that produces pictures in the minds of people; the ability to form mental images of things or events
346. ar__e passionately *v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others

ANSWERS: 338. miniature, 339. anesthesia, 340. silicon, 341. degenerate, 342. stomach, 343. indicate, 344. whack, 345. imagery, 346. argue

347. c__f bracelet *n.* a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand, typically to the head or ear
348. bacterial pr____me *n.* the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
349. im____e a process *v.* to make or become better
350. ha____ld device *adj.* designed to be held in one hand; portable, and compact enough to be carried or used on the go
351. te____ry system *n.* the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes
352. former co____ue *n.* one of a group of a coworker, especially in a profession or a business
353. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
354. his majestic pr____ce *n.* the fact or state that someone or something exists, occurs, or is present
355. bio____ics research *n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

ANSWERS: 347. cuff, 348. proteome, 349. improve, 350. handheld, 351. telemetry, 352. colleague, 353. scan, 354. presence, 355. bioinformatics

356. plenty of fl__ds *n.* a substance that can flow and is not solid
357. display res_____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
358. ut_____e a different approach *v.* to use something for a practical purpose in an effective way
359. a light co_____il *n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
360. a l__s with a wide angle *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation
361. he confessed dra_____lly *adv.* in a very impressive manner
362. re_____e one word with another *v.* to take the place of something
363. importance of early de_____on *n.* the act of discovering or identifying the presence of something
364. visit to the veterinary cl____c *n.* a building or hospital department where people can go for medical care or advice, especially of a particular condition

ANSWERS: 356. fluid, 357. resolution, 358. utilize, 359. cocktail, 360. lens, 361. dramatically, 362. replace, 363. detection, 364. clinic

365. tax in je____dy *n.* the state of being in danger or at risk of harm or loss
366. de_____ty with the pen *n.* skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
367. co_____il of chemicals *n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal
368. cultural pa_____gm *n.* a standard or typical example of something; a pattern or model
369. kl____e code *n.* a piece of hardware, software, or system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem
370. di____e the cake into two pieces *v.* to separate or cause to separate into parts or groups
371. walk ba_____rd *adv.* at, to, or toward the direction or place that is behind or rear
372. qu_____fy blood flow *v.* to express or measure something in numerical terms
373. en_____e the flavor of the vanilla *v.* to increase or improve the quality, amount, or strength of someone or something
374. satellite im_____y *n.* the use of words or pictures in books, photographs, paintings, etc., that produces pictures in the minds of people; the ability to form mental images of things or events

ANSWERS: 365. jeopardy, 366. dexterity, 367. cocktail, 368. paradigm, 369. kludge, 370. divide, 371. backward, 372. quantify, 373. enhance, 374. imagery

375. modern on_____gy treatment *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies
376. d__k drive *n.* a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
377. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
378. celebrate the ad____t of spring *n.* the arrival or beginning of something; the coming of Jesus Christ at his birth
379. the f__k songs of a particular district *n.* people in general, especially those of a particular group or type
380. c__t prevention *n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
381. suffer st____e *n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.
382. vegetable ma____w *n.* a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience
383. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
384. int_____ion education *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

ANSWERS: 375. oncology, 376. disk, 377. definition, 378. advent, 379. folk, 380. clot, 381. stroke, 382. marrow, 383. complexity, 384. introduction

385. the st___m of time *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
386. cause an ac_____nt *n.* an unfortunate event, especially one causing damage or injury
387. em_____r the secretary to do the same *v.* to give someone the power or authority to do something
388. sh___k with fear *v.* to become smaller, or to make something smaller in size or amount
389. the s__m of a matchstick *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
390. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
391. su_____s \$20 billion in sales *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
392. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
393. en_____ng mindset *adj.* providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
394. hem_____gy finding *n.* the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system

ANSWERS: 385. stream, 386. accident, 387. empower, 388. shrink, 389. stem, 390.

device, 391. surpass, 392. lab, 393. enabling, 394. hematology

395. sma_____ne addict *n.* a mobile phone that functions as a computer and connects to the Internet
396. the professor of su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
397. medical en_____pe *n.* a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually
398. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
399. traumatic par_____ia *n.* a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system
400. pa__h of grass *n.* a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose
401. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 395. smartphone, 396. surgery, 397. endoscope, 398. assemble, 399. paraplegia, 400. patch, 401. process

402. have pro_____ic arms *adj.* of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
403. temporary me_____l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
404. a membrane of a mit_____ria *n.* (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food
405. wi_____ss charging *adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals
406. blood gl_____e test *n.* a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things
407. dis_____ary action *adj.* of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study
408. acute em_____cy *n.* a sudden unforeseen crisis usually involving danger that requires immediate action
409. id_____fy gene sequences *v.* to recognize someone or something and say or prove who or what they are
410. an ar__y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive

ANSWERS: 402. prosthetic, 403. medical, 404. mitochondria, 405. wireless, 406. glucose, 407. disciplinary, 408. emergency, 409. identify, 410. array

411. unanimously ap_____e a resolution *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
412. re_____ly operate *adv.* at a distance; not directly or easily accessible
413. ru__l accents *adj.* of or relating to the countryside
414. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
415. ree_____er the organizational structure *v.* to redesign or restructure something such as a machine, system, organization, etc.
416. destruction of human em___os *n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
417. th_____y for a patient *n.* the act of caring for someone through medication, remedial training, etc.
418. cl_____al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
419. l__b amputation *n.* an arm and leg of a person or animal
420. me__e into a new party *v.* to combine or integrate things, or to cause this to happen
421. a vi_____l image *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact

ANSWERS: 411. approve, 412. remotely, 413. rural, 414. discovery, 415. reengineer, 416. embryo, 417. therapy, 418. clinical, 419. limb, 420. merge, 421. virtual

422. de_____on by the security software *n.* the act of discovering or identifying the presence of something
423. cu___r movement *n.* a visual representation on a computer screen that is controlled by a mouse or other pointing device and is used to indicate where the next action or input will occur, typically in the form of an arrow or other icon
424. the pr_____er of the family *n.* a person or an organization that supplies somebody with something needed or wanted
425. pha_____ics technology *n.* the study of how genes affect an individual's response to drugs and other treatments, particularly in the context of personalized medicine
426. trading of vi_____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
427. a tr__t of virgin forest *n.* a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body
428. a two-dimensional ar__y *n.* a large group or collection of things or people, especially one that is impressive or attractive
429. electronic ste_____pe *n.* a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds

ANSWERS: 422. detection, 423. cursor, 424. provider, 425. pharmacogenomics, 426. virtual, 427. tract, 428. array, 429. stethoscope

430. ex_____ve vice president *n.* a person or group of people with top-level management responsibility in a business or other organization; the branch that is responsible for implementing, administering, and enforcing laws, as well as running the day-to-day operations
431. a natural l_e *n.* the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind
432. qua_____gia care *n.* paralysis of all four limbs and the torso, usually resulting from injury to the spinal cord in the neck region
433. beam of el_____ons *n.* a tiny particle with the negative electrical charge
434. a prosthetic l__b *n.* an arm and leg of a person or animal
435. a private ind_____al *n.* a single person or thing, as distinct from a group
436. blood c__t *n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
437. inc_____gly become common *adv.* more and more
438. co__n examination *n.* the punctuation mark (:) used to introduce a list, summary, explanation, etc., or before reporting what someone has said; a significant part of the large intestine, the final section of the digestive system

ANSWERS: 430. executive, 431. lee, 432. quadriplegia, 433. electron, 434. limb, 435. individual, 436. clot, 437. increasingly, 438. colon

439. inc_____ze carpooling *v.* to make someone want to do in a particular way by offering them a reward
440. bi_____er discovery *n.* a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention
441. pa_____y to understanding *n.* a track that constitutes or serves as a path; an approach or a way of doing something
442. cutting-edge inn_____on *n.* the creation of a new device or process resulting from study and experimentation
443. carry a s__r *n.* a mark that remains on the skin after a wound has healed
444. mi_____re camera *adj.* being on a very small scale
445. the user in_____ce *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
446. fr_____nt of a text *n.* a small piece or part broken off or detached
447. take dis_____ary measures *adj.* of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study
448. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy

ANSWERS: 439. incentivize, 440. biomarker, 441. pathway, 442. innovation, 443. scar, 444. miniature, 445. interface, 446. fragment, 447. disciplinary, 448. microscopic

449. implanted pa_____er *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
450. psy_____ive medication *adj.* producing an effect on mental processes, such as mood, perception, or behavior; capable of affecting the mind or emotions
451. b_w and greet *v.* to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows
452. killer a_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
453. car_____ist appointment *n.* a medical doctor who specializes in the study and treatment of the heart and the circulatory system
454. share my in_____ts *n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
455. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
456. ex_____d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism

ANSWERS: 449. pacemaker, 450. psychoactive, 451. bow, 452. app, 453. cardiologist, 454. insight, 455. lab, 456. exposed

457. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab
458. mo_____r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
459. needle pu_____re *n.* a small hole or wound made by piercing, such as with a needle, nail, or pointed object
460. me_____e a negotiation *v.* to try to bring about an agreement or understanding between people who are in conflict
461. ro_____c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
462. en_____ge a sense of affinity *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
463. kl____e solution *n.* a piece of hardware, software, or system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem
464. clo_____ing services *n.* the practice of using a network of remote servers hosted on the internet to store, manage, and process data, rather than a local server or personal computer

ANSWERS: 457. laboratory, 458. monitor, 459. puncture, 460. mediate, 461. robotic, 462. encourage, 463. kludge, 464. cloud-computing

465. a p_t bird *n.* an animal that you have at home as a companion and treated kindly
466. risk of coronary ar___y disease *n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
467. a di____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
468. dull si__t *n.* the ability to see; anything that is seen
469. ba____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
470. em____ic development *adj.* of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
471. eat a vegetarian d__t *n.* the food and drink that a person, animal, or community eats and drinks regularly; a legislative assembly in certain countries, for example, Japan
472. camera st__p *n.* a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport

ANSWERS: 465. pet, 466. artery, 467. digital, 468. sight, 469. backward, 470. embryonic, 471. diet, 472. strap

473. the co__n at the end of the sentence
474. a li___r equation
475. M_l brain image
476. an air-cooled en___e
477. at inc_____le speed
478. surgical int_____ion
479. common in_____on
480. me_____n name
481. ob_____y-related diseases
- n.* the punctuation mark (:) used to introduce a list, summary, explanation, etc., or before reporting what someone has said; a significant part of the large intestine, the final section of the digestive system
- adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph
- n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
- n.* a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
- adj.* unbelievable; enormous
- n.* the action or process of being done to improve or help a circumstance, often they have not been asked to do so
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
- v.* to speak or write about something or someone briefly
- n.* the condition of being significantly overweight, typically defined as having a body mass index (BMI) of 30 or greater.

ANSWERS: 473. colon, 474. linear, 475. MRI, 476. engine, 477. incredible, 478. intervention, 479. invention, 480. mention, 481. obesity

482. a scanty ha____t *n.* yields of plants in a single growing season; the period of the year when gathering occurs on a farm
483. su____nt traditional methods *v.* to replace or take the place of something or someone, often by force or through strategic maneuvering; to make obsolete or obsolete by introducing a superior or more advanced alternative
484. clo_____ing infrastructure *n.* the practice of using a network of remote servers hosted on the internet to store, manage, and process data, rather than a local server or personal computer
485. de____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
486. international blo_____er *n.* a movie, book, or other product that is extremely successful and popular, especially one that makes much money
487. an unexpected si__t *n.* the ability to see; anything that is seen
488. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
489. the te____ue applied to construction *n.* a particular way or art of doing something that needs skill

ANSWERS: 482. harvest, 483. supplant, 484. cloud-computing, 485. develop, 486. blockbuster, 487. sight, 488. biomedical, 489. technique

490. tracking de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
491. med_____on training *n.* the act of focusing one's mind on a particular object or thought; activity to train attention and achieve a mentally clear and emotionally calm and stable state
492. in_____ve breast cancer *adj.* spreading very quickly, and often aggressively, and difficult to stop
493. control re_____ly *adv.* at a distance; not directly or easily accessible
494. Bl_____th connection *n.* a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers
495. di_____se with CT scans *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
496. cannot log in to the a_p *n.* (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
497. di_____t ancestors *adj.* far away in space, time, or where you are; far apart in relevance, relationship, or kinship

ANSWERS: 490. device, 491. meditation, 492. invasive, 493. remotely, 494. Bluetooth, 495. diagnose, 496. app, 497. distant

498. a ch_____on of peace *n.* someone who has won first place in a competition; someone who fights for a specific group of people or a belief
499. me_____n in a report *v.* to speak or write about something or someone briefly
500. h__k into the program *v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
501. crystalline si_____n *n.* a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers
502. re_____e a phone *v.* to take the place of something
503. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
504. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
505. hyp_____ion rate *n.* a medical condition characterized by abnormally high blood pressure in the arteries, often leading to an increased risk of heart disease, stroke, and other health problems
506. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
507. ge_____gy research *n.* the study of family history and the tracing of lineages

ANSWERS: 498. champion, 499. mention, 500. hack, 501. silicon, 502. replace, 503. chip, 504. microscopic, 505. hypertension, 506. brain, 507. genealogy

508. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
509. cardiac my_____e *n.* a type of muscle cell found in muscle tissue, responsible for contraction and movement
510. inn_____on leader *n.* the creation of a new device or process resulting from study and experimentation
511. major paradigm sh__t *n.* a slight transition in position, direction, or trend
512. electric-powered whe_____ir *n.* a chair fitted with large wheels for use as a means of transport by a person who is unable to walk
513. f__k art *n.* people in general, especially those of a particular group or type
514. ma_____in good health *v.* to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true
515. pa_____er battery *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
516. an endless st___m of cars *n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.
517. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

ANSWERS: 508. amazing, 509. myocyte, 510. innovation, 511. shift, 512. wheelchair, 513. folk, 514. maintain, 515. pacemaker, 516. stream, 517. chip

518. di___r bag *n.* a soft, absorbent piece of material worn by babies and young children around their waist and between their legs to catch urine and feces
519. the sin_____ty of the Divine *n.* (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind
520. an_____e your real motives *v.* to think about in-depth and evaluate to discover essential features or meaning
521. di_____se the problem *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
522. ne___l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
523. the evidence of the pr_____ce *n.* the fact or state that someone or something exists, occurs, or is present
524. h__d ornament *n.* a covering for the head and neck, especially one attached to a garment
525. pr_____me database *n.* the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
526. brain and sp___l cord *adj.* of or relating to the spine (= the long bone in the body's back)
527. art_____al flowers *adj.* not natural and made by human beings; not real but produced to resemble something

ANSWERS: 518. diaper, 519. singularity, 520. analyze, 521. diagnose, 522. neural, 523. presence, 524. hood, 525. proteome, 526. spinal, 527. artificial

528. basin-shaped va___y *n.* a long depression on the surface of the land, which typically contains a river
529. mo_____ar biology *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
530. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
531. Bl_____th-enabled device *n.* a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers
532. de_____on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
533. bl__d spot *adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
534. di_____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
535. a convex l__s *n.* a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

ANSWERS: 528. valley, 529. molecular, 530. environment, 531. Bluetooth, 532. decision, 533. blind, 534. disease, 535. lens

536. ins_____ize a system *v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
537. lu___r industry *n.* wood that has been sawn or cut into planks, boards, or other structural shapes for use in construction; the act of moving heavily or clumsily
538. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
539. blo_____er movie *n.* a movie, book, or other product that is extremely successful and popular, especially one that makes much money
540. in_____te into the existing system *v.* to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
541. ad___t calendar *n.* the arrival or beginning of something; the coming of Jesus Christ at his birth
542. em___o cloning *n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
543. gal_____er disease *n.* a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion
544. mo_____ar structure *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

ANSWERS: 536. institutionalize, 537. lumber, 538. discovery, 539. blockbuster, 540. integrate, 541. advent, 542. embryo, 543. gallbladder, 544. molecular

545. a gear change le__r *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
546. bl__d to the beauties *adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
547. an excellent brain su____n *n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
548. bo__d up a staircase *v.* to move forward by leaps and bounds; to form the boundary of something
549. em____r my life *v.* to give someone the power or authority to do something
550. re___e a message *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
551. qu____fy the results *v.* to express or measure something in numerical terms
552. app_____te the value *v.* to value and acknowledge the worth of someone or something; to be grateful for something or someone
553. suffer from ob____y *n.* the condition of being significantly overweight, typically defined as having a body mass index (BMI) of 30 or greater.
554. ma___a lutea *n.* a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision

ANSWERS: 545. lever, 546. blind, 547. surgeon, 548. bound, 549. empower, 550. relate, 551. quantify, 552. appreciate, 553. obesity, 554. macula

555. a civil en____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
556. a weak pu__e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
557. rough lu____r *n.* wood that has been sawn or cut into planks, boards, or other structural shapes for use in construction; the act of moving heavily or clumsily
558. get ne____s *adj.* worried and anxious about something; relating to the nerves
559. flow of el____ons *n.* a tiny particle with the negative electrical charge
560. ca____r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
561. exp____al growth *adj.* becoming more and more rapid; of or involving mathematical exponents
562. dec____ize organizational structure *v.* to move the power, control, or authority of an organization, government, or system from a single place to several smaller ones
563. an information pr____er *n.* a person or an organization that supplies somebody with something needed or wanted

ANSWERS: 555. engineer, 556. pulse, 557. lumber, 558. nervous, 559. electron, 560. cancer, 561. exponential, 562. decentralize, 563. provider

564. robotic exo_____on

n. a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab

ANSWERS: 564. exoskeleton

Session 3: Fill in the Blanks

1. We gained various _____ by analyzing the vast amount of data owned by the company.
 - n.* the ability to gain an accurate and deep understanding of people or situations; an accurate and deep understanding of what something is like
2. The corporation _____ dominated the entire tobacco business.
 - adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
3. The _____ intelligence system has revolutionized the way we live and work.
 - adj.* not natural and made by human beings; not real but produced to resemble something
4. Eventually, the new design will _____ all older models.
 - v.* to take the place of something
5. Please _____ her with the furniture relocation.
 - v.* to help someone in doing anything
6. I need to _____ these pictures to my computer to edit them.
 - v.* to transfer digital data or files from a local computer or device to a remote server or network; the act of transferring such data or files
7. The surgeon removed the tumor using _____ video assistance.
 - adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

ANSWERS: 1. insights, 2. eventually, 3. artificial, 4. replace, 5. assist, 6. upload, 7. robotic

8. The golfer recorded an _____ distance.

adj. extremely surprising, especially in a way that you like or admire

9. The _____ disease can spread quickly and potentially cause a global pandemic.

adj. spreading very quickly, and often aggressively, and difficult to stop

10. The doctor examined the _____ on the patient's skin to determine if it was cancerous.

n. a damaged or abnormal area of tissue in the body, usually caused by injury or disease

11. The _____ analysis provided valuable insights into the evolutionary history of the species.

n. a specific combination of genetic variations or alleles that are inherited together on the same chromosome from a single parent, which is used to analyze genetic patterns and understand the inheritance of specific traits or diseases

12. The long _____ to the air tarnished the antique tableware.

n. the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret

13. The cook _____ the leftover oxtail to make soup.

v. to use something for a practical purpose in an effective way

14. Breast _____ is the most common type of cancer in women.

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

ANSWERS: 8. amazing, 9. invasive, 10. lesion, 11. haplotype, 12. exposure, 13. utilized, 14. cancer

15. The _____ process can be long and difficult, but it is worth it for the love of a child.
- n.* the action or fact of legally taking another's child as one's own; the act of accepting with approval
16. She was diagnosed with a _____ buildup in her lungs.
- n.* a substance that can flow and is not solid
17. The satellite sends _____ data back to Earth to help scientists study the atmosphere.
- n.* the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes
18. They used a special receiver to _____ police radio channels.
- v.* to observe, check, and track the progress or quality of something over a period of time
19. Her response revealed _____ idiocy.
- adj.* unbelievable; enormous
20. When the first molecule in the _____ receives a signal, it activates other molecules.
- n.* a track that constitutes or serves as a path; an approach or a way of doing something
21. This shirt will _____ in the wash.
- v.* to become smaller, or to make something smaller in size or amount
22. He postulated a completely different _____ to explain all these phenomena.
- n.* a standard or typical example of something; a pattern or model

ANSWERS: 15. adoption, 16. fluid, 17. telemetry, 18. monitor, 19. incredible, 20. pathway, 21. shrink, 22. paradigm

23. _____ a society is an organism.
adv. relating to the essential features or concepts of anything
24. We would _____ an early reply.
v. to value and acknowledge the worth of someone or something; to be grateful for something or someone
25. There are several treatment options available for patients with _____ disorders.
n. a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision
26. I need to sew a _____ onto my jeans that ripped.
n. a small piece of material or fabric used to repair or reinforce a tear, hole, or damaged area; a small plot of land used for cultivation or a specific purpose
27. During _____ farmers are incredibly busy.
n. yields of plants in a single growing season; the period of the year when gathering occurs on a farm
28. After the accident, he had _____ and could not move his arms or legs.
n. paralysis of all four limbs and the torso, usually resulting from injury to the spinal cord in the neck region
29. I _____ my anger and kept quiet.
v. to make food, drink, pills, etc., pass down your throat into your stomach; (noun) small long-winged songbird noted for swift, graceful flight and the regularity of its migrations
30. I put the ice cream in the _____ to keep it from melting.
n. a device that keeps food, beverages, or other perishable items at low temperatures to maintain their freshness or preserve them for later use

ANSWERS: 23. Essentially, 24. appreciate, 25. macula-related, 26. patch, 27. harvest, 28. quadriplegia, 29. swallowed, 30. freezer

31. New _____ joints are less prone to metal poisoning.
adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
32. The _____ bicyclist outrode all his competitors.
n. someone who has won first place in a competition; someone who fights for a specific group of people or a belief
33. I need a _____ headset for my conference calls.
n. a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers
34. The policies he announces can be the _____ of economic growth in the country.
n. a machine that converts thermal energy to mechanical work; something that has an important role used to achieve a purpose
35. The new action movie is expected to be a _____ hit.
n. a movie, book, or other product that is extremely successful and popular, especially one that makes much money
36. She holds a _____ on Tuesday mornings.
n. a building or hospital department where people can go for medical care or advice, especially of a particular condition
37. There are _____ differences between the two wine-producing regions.
adj. easy to see, discover or understand
38. Our company found it _____ difficult to keep up with the competition.
adv. more and more

ANSWERS: 31. prosthetic, 32. champion, 33. Bluetooth, 34. engine, 35. blockbuster, 36. clinic, 37. obvious, 38. increasingly

39. Your spinal _____ is located deep within your body.

- n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

40. A rose has thorns on its _____.

- n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

41. Damage to the _____ may play a role in the development of glaucoma.

- n.* the innermost light-sensitive membrane covering the back wall of the eyeball

42. The office's _____ network allows employees to work from anywhere in the building.

- adj.* of or relating a connection or communication that does not require a physical wire or cable, often through the use of radio waves or electromagnetic signals

43. The _____ for applying for a visa can be lengthy and complicated.

- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

44. Many _____ areas are still impoverished.

- adj.* of or relating to the countryside

45. My father was tested for _____.

- n.* a medical condition in which the body cannot produce enough insulin to control the glucose levels in the blood

ANSWERS: 39. cord, 40. stem, 41. retina, 42. wireless, 43. process, 44. rural, 45. diabetes

46. We must _____ a new system to streamline our workflow and increase efficiency.
- v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
47. Smoking places you at severe risk of _____ and respiratory disease.
- adj.* of or relating to the heart and blood vessels (= tubes that carry blood around the body)
48. The athlete tightened the _____ on his running shoes before the race.
- n.* a long, narrow strip or belt of leather, fabric, or another material used for binding, fastening, or supporting something or someone; a band or string that attaches one object to another, often used to secure items during transport
49. He is a skilled _____ that has many years of training and experience.
- n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
50. I will introduce you to how to _____ the leading causes of the malfunction.
- v.* to recognize someone or something and say or prove who or what they are
51. Could you help me _____ some furniture?
- n.* a slight transition in position, direction, or trend
52. The _____ yard had a wide selection of wood for building and construction.
- n.* wood that has been sawn or cut into planks, boards, or other structural shapes for use in construction; the act of moving heavily or clumsily
53. The hiker found a calm spot in the _____ of the mountain to set up camp.
- n.* the side or part that is sheltered or facing away from the wind or the direction from which the wind is blowing; a position or location protected from the full force or effects of something, particularly the wind

ANSWERS: 46. develop, 47. cardiovascular, 48. strap, 49. surgeon, 50. identify, 51. shift, 52. lumber, 53. lee

54. I found a lucky _____ on the ground while walking to work this morning.
- n.* a small denomination of currency or coin, typically the smallest unit of a currency system; in the US, a coin worth one cent
55. The adoption of _____ has revolutionized the IT industry, making it more accessible and affordable.
- n.* the practice of using a network of remote servers hosted on the internet to store, manage, and process data, rather than a local server or personal computer
56. _____ stem cells can differentiate into any cell in the body.
- adj.* describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
57. The flying car is presently in the _____ stage.
- n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
58. Some people with _____ may need to avoid certain activities or sources of electromagnetic interference.
- n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
59. She received her _____ in psychology from the university.
- n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
60. Jet _____ are the common name for air currents that form high in the atmosphere.
- n.* a small, narrow river; a continuous flow of something, such as liquid, gas, people, vehicles, etc.

ANSWERS: 54. penny, 55. cloud-computing, 56. Pluripotent, 57. prototype, 58. pacemakers, 59. degree, 60. streams

61. I always carry a backup _____ in case my phone runs out of battery.
n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
62. Our latest project is still at the _____ stage.
n. an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
63. The doctor used a blood pressure _____ to measure my vitals.
n. a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand, typically to the head or ear
64. He found that it is difficult to _____ socially.
v. to combine one thing with another so that they form a whole or work together; to accept equal participation for members of all races and ethnic groups
65. He is in general _____ under the surgeon.
n. a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
66. Animal protection groups call for an end to animal testing in a _____.
n. a workplace for doing scientific research or teaching science; a lab
67. This regulation is not _____ to minors.
adj. fit or suitable to be applied; having relevance to a person or thing
68. I have a _____ ache after overeating junk food.
n. the internal organ in the body where food is digested, situated in the abdomen; the part of the body below the chest that contains the stomach

ANSWERS: 61. device, 62. embryo, 63. cuff, 64. integrate, 65. anesthesia, 66. laboratory, 67. applicable, 68. stomach

69. The soldier was fitted with a _____ arm after losing him in combat.
adj. relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
70. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
71. _____ technologies allows people with disabilities to lead more independent lives.
adj. providing the means, support, or resources necessary for something to happen or be achieved; allowing or encouraging a particular behavior or activity
72. I was able to _____ the moment on film.
v. to catch a person or an animal and confine them in an area which they cannot escape
73. The medical lab specializes in _____ testing and analysis.
n. the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system
74. Jockey's superior _____ brought him victory.
n. a particular way or art of doing something that needs skill
75. Increased _____ pressure leads to the development of glaucoma.
n. the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen

ANSWERS: 69. bionic, 70. medicinal, 71. Enabling, 72. capture, 73. hematology, 74. technique, 75. eyeball

76. The sun set over the crest of _____ hills.

adj. far away in space, time, or where you are; far apart in relevance, relationship, or kinship

77. He _____ the computer's operating system to remove the safeguard.

v. to modify or recreate a program

78. Economic factors and monetary policy _____ inflation.

v. to increase the size, extent, quantity, etc. of something by adding something to it

79. As the _____ director of the non-profit, it's her responsibility to make sure they're meeting their mission goals.

n. a person or group of people with top-level management responsibility in a business or other organization; the branch that is responsible for implementing, administering, and enforcing laws, as well as running the day-to-day operations

80. The _____ arrived in port the following day.

n. a ship or large boat

81. I need to _____ my car regularly to prevent any major mechanical issues.

v. to continue to uphold or sustain; to keep in a particular state or condition; to assert or declare something to be true

82. Energy-efficient _____ are needed to maximize the cruising distance of electric vehicles.

n. a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work

83. He did complicated pen-and-ink drawings like medieval _____.

adj. being on a very small scale

ANSWERS: 76. distant, 77. reprogrammed, 78. augmented, 79. executive, 80. vessel, 81. maintain, 82. motors, 83. miniatures

84. _____ DNA is used to trace human lineage and migration footprints.
n. (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food
85. The pharmaceutical company unveiled its latest breakthrough drug for the _____ market.
n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies
86. _____ substances can seriously affect the brain and must be used cautiously.
adj. producing an effect on mental processes, such as mood, perception, or behavior; capable of affecting the mind or emotions
87. She visited the local _____ to seek treatment for her persistent headache.
n. a medical doctor who practices medicine
88. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
89. I underwent aversion _____ for my addiction to alcohol.
n. the act of caring for someone through medication, remedial training, etc.
90. The new strategy will _____ the profitability of our company.
v. to increase or improve the quality, amount, or strength of someone or something

ANSWERS: 84. Mitochondria, 85. oncology, 86. Psychoactive, 87. physician, 88. nanoscale, 89. therapy, 90. enhance

91. He had a _____ because he was working through the night.
- n.* the fact of becoming ill or starting to misbehave again after making an improvement
92. Continuous consumption of fatty foods leads to the hardening of the _____.
- n.* one of the thick tubes in humans and most other animals that takes blood away from the heart to one or more parts of the body such as tissues, lungs, brain, etc.
93. She was nearly _____ due to severe diabetes.
- adj.* unable to see; unable or unwilling to perceive or understand the true nature of something
94. Let's go to an all-you-can-eat _____ restaurant.
- n.* a sweet food served as the last course of a meal
95. The university's _____ was responsible for overseeing the academic programs and policies.
- n.* a person in charge of a college, faculty, or other academic departments, tasked with overseeing its operations, policies, and staff; a senior member of a profession or organization who is highly respected for their knowledge and experience
96. The _____ in the road was so sharp that I had to slow down to navigate it safely.
- n.* a bend or angle in a line or surface that deviates from a straight or flat path; a gradual or smooth change in direction or shape
97. The new amusement park ride was _____ with twists, turns, and drops that left riders screaming with excitement.
- adj.* extremely good; excellent

ANSWERS: 91. relapse, 92. artery, 93. blind, 94. dessert, 95. dean, 96. curve, 97. fantastic,

98. The outermost _____ shell determines the chemical properties of an atom.
n. a tiny particle with the negative electrical charge
99. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
100. This _____ does not require the patient's consent.
n. the action or process of being done to improve or help a circumstance, often they have not been asked to do so
101. Some countries may leave the _____.
n. the official currency of most European Union countries
102. We could hear the _____ of baby birds.
n. a short, high sound made by a small bird; a message sent using Twitter, the social media application
103. The _____ of the internet has dramatically changed the way we communicate.
n. the arrival or beginning of something; the coming of Jesus Christ at his birth
104. The computer's hard _____ was full, so she had to delete some files.
n. a flat, circular plate, typically made of metal, glass, or plastic, used for storing data or playing music
105. Scientists have predicted that the universe will end in a _____ where all matter will collapse into an infinitely dense point.
n. (of black holes) a point or region in space-time where the gravitational field is infinite, and matter and energy are infinitely dense; the state, fact, quality, or condition of being one of a kind

ANSWERS: 98. electron, 99. engineer, 100. intervention, 101. Euro, 102. tweet, 103. advent, 104. disk, 105. singularity,

106. This area is medically _____.

adj. inadequately or insufficiently provided with help, products, or services

107. This library rents out various types of folding _____ for visitors.

n. a chair fitted with large wheels for use as a means of transport by a person who is unable to walk

108. Five of the six provinces will become _____ regions under the new federal system of government.

adj. capable of governing or controlling its affairs

109. The _____ instructor guided the group through the relaxation and breathing exercises.

n. the act of focusing one's mind on a particular object or thought; activity to train attention and achieve a mentally clear and emotionally calm and stable state

110. He had to undergo a _____ as part of his routine medical check-up.

n. a medical procedure in which a flexible tube with a camera on its end is inserted into the rectum to examine the colon for potential abnormalities or diseases

111. The _____ output of a resting adult is around three quarts per minute.

adj. of or relating to the heart or heart disease

112. Many famous _____ are within walking distance.

n. the ability to see; anything that is seen

113. The _____ industry is growing rapidly due to its immense potential.

n. the study of how genes affect an individual's response to drugs and other treatments, particularly in the context of personalized medicine

ANSWERS: 106. underserved, 107. wheelchairs, 108. autonomous, 109. meditation, 110. colonoscopy, 111. cardiac, 112. sights, 113. pharmacogenomics

114. The old printer was connected to the computer with a _____ of cables and adapters.
- n.* a piece of hardware, software, or system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem
115. This evidence will form the _____ for our discussion.
- n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
116. She is a _____ musician, able to play several instruments.
- adj.* having a natural ability or aptitude for something; showing exceptional skill or ability in a particular area
117. This year's extreme heat has resulted in many heat _____ cases.
- n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.
118. He should _____ more with his colleagues.
- v.* to communicate or react with somebody
119. The farmer owns a large _____ of land where he grows corn and soybeans.
- n.* a region of land, often with a specific purpose or use, such as farming, forestry, or mining; a bundle of nerves or a system of organs in the body
120. There was a disturbance of _____ function.
- adj.* of or relating to a nerve or the nervous system that includes the brain
121. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.
- adj.* answerable or accountable for something within one's power, control, or management

ANSWERS: 114. kludge, 115. basis, 116. talented, 117. stroke, 118. interact, 119. tract, 120. neural, 121. responsible

122. The tire had a _____ and needed to be replaced.

n. a small hole or wound made by piercing, such as with a needle, nail, or pointed object

123. The prevalence of _____ has increased significantly in recent years.

n. the condition of being significantly overweight, typically defined as having a body mass index (BMI) of 30 or greater.

124. The surgeon carefully confirmed how to remove the tumor to avoid damaging the _____ nerves.

adj. of or relating to the spine (= the long bone in the body's back)

125. My grandfather is seeing a _____ to monitor his heart condition.

n. a medical doctor who specializes in the study and treatment of the heart and the circulatory system

126. The photographer took this photo using a telephoto _____.

n. a transparent optical device with curved sides, used in an optical instrument that makes objects seem larger, smaller, clearer, etc.; (metaphor) the basic thoughts or mindsets through which someone sees or understands the environment or situation

127. Canada _____ on the United States.

v. to move forward by leaps and bounds; to form the boundary of something

128. The president began to _____ an army.

v. to collect in one place as a single group

129. The _____ team worked quickly to save the patient's life.

adj. relating to the treatment of illness or injuries; relating to the practice of medicine

ANSWERS: 122. puncture, 123. obesity, 124. spinal, 125. cardiologist, 126. lens, 127. bounds, 128. assemble, 129. medical

130. The software could _____ the encrypted data and reveal the hidden information.
- v.* to convert something, such as a message or piece of information, from a specific form into one that you can understand
131. The surgeon's _____ was impressive during the delicate surgery.
- n.* skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
132. Inspectors noticed _____ cracks in the submarine's hull.
- adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
133. Since the 1990s, the Internet has continued to experience _____ growth.
- adj.* becoming more and more rapid; of or involving mathematical exponents
134. The data _____ that the company's profits have steadily increased over the past quarter.
- v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
135. He evaluated his chances for _____ rather pessimistically.
- n.* the state of continuing to exist or live, frequently in the face of difficulty or danger
136. This movie is famous for its romantic _____.
- n.* the use of words or pictures in books, photographs, paintings, etc., that produces pictures in the minds of people; the ability to form mental images of things or events
137. The doctor used a diagnostic _____ to examine the patient's stomach during the medical procedure.
- n.* a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually

ANSWERS: 130. decode, 131. dexterity, 132. microscopic, 133. exponential, 134. indicates, 135. survival, 136. imagery, 137. endoscope

138. The path to a solid online _____ necessitates a high technical ability.
n. the fact or state that someone or something exists, occurs, or is present
139. The president declared a state of _____.
n. a sudden unforeseen crisis usually involving danger that requires immediate action
140. She falls over _____ when she sees her mother-in-law.
adv. at, to, or toward the direction or place that is behind or rear
141. Life expectancy has grown _____ this century.
adv. in a very impressive manner
142. X-rays revealed a small tumor in his _____.
n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling
143. The new policy aims to _____ the use of renewable energy sources.
v. to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
144. The _____ of the crab protects it from predators and environmental changes.
n. a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
145. The discovery of a critical bug caused the company to delay the _____ release.
n. (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

ANSWERS: 138. presence, 139. emergency, 140. backward, 141. dramatically, 142. brain, 143. institutionalize, 144. exoskeleton, 145. app's

146. The security camera has _____ four intruders.

v. to find or recognize something, especially something difficult to see, hear, etc.

147. Trains are _____ inexpensive, and ideal for long-distance travel.

adj. worthy of being relied on; trustworthy

148. I need to buy a pack of _____ for my baby before we run out.

n. a soft, absorbent piece of material worn by babies and young children around their waist and between their legs to catch urine and feces

149. Can you _____ 123321 by eleven?

v. to separate or cause to separate into parts or groups

150. The doctor diagnosed him with a rare _____ that had no known cure.

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

151. You should wrap the bandage carefully and firmly around the injured _____.

n. an arm and leg of a person or animal

152. Understanding protein folding is a vital step in deciphering the _____ code.

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

153. The doctor injected _____ into his patient's veins.

n. a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things

154. He tried to _____ his experience to the group, but they couldn't understand.

v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

ANSWERS: 146. detected, 147. reliable, 148. diapers, 149. divide, 150. disease, 151. limb, 152. genetic, 153. glucose, 154. relate

155. The oil price continued their downward _____.

n. a general direction in which something is changing or developing

156. The astronaut trained for years before embarking on her _____ to the International Space Station.

n. a long journey, especially by sea or in space

157. Internet traffic volumes have increased significantly with the advent of _____.

n. a mobile phone that functions as a computer and connects to the Internet

158. The _____ on a map app shows your location and allows you to navigate.

n. a visual representation on a computer screen that is controlled by a mouse or other pointing device and is used to indicate where the next action or input will occur, typically in the form of an arrow or other icon

159. We want to _____ ties between our two countries.

v. to make or become better

160. The company used this _____ platform to gather ideas for its next product.

n. the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet

161. The _____ test showed that the patient was responding well to the treatment.

n. a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

ANSWERS: 155. trend, 156. voyage, 157. smartphones, 158. cursor, 159. improve, 160. crowdsourcing, 161. biomarker

162. He suffers from _____ breakdowns.

adj. worried and anxious about something; relating to the nerves

163. Each department has done its product costing _____.

adv. separately or apart from others

164. They've decided to _____ a ruined castle.

v. to build or form something again that has been damaged or destroyed

165. The project is still in its _____ stage.

adj. of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development

166. _____ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

167. She stood on the podium and _____ an audience.

v. to examine something hastily, with the eyes or with a machine, to get information

168. The human _____ contains approximately three billion chemical base pairs.

n. the complete set or sequence of genes of a human, animal, plant, or other living things

169. I _____ to him that I had seen his sister at the grocery store earlier that day.

v. to speak or write about something or someone briefly

ANSWERS: 162. nervous, 163. individually, 164. reconstruct, 165. embryonic, 166. Biomedical, 167. scanned, 168. genome, 169. mentioned

170. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.
- n.* a workplace for the conduct of scientific research; a laboratory
171. The project is in _____ of being canceled due to a lack of funding.
- n.* the state of being in danger or at risk of harm or loss
172. The ____ machine uses powerful magnets to produce detailed images of the inside of the body.
- n.* (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
173. This initiative will be a _____ for increasing company sales.
- n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
174. After his accident, he was left with _____ and had to use a wheelchair.
- n.* a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system
175. She is the _____ president of the company.
- adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
176. They _____ customers with a premium for loyal patronage.
- v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
177. The _____ examination helped the doctor detect the irregular heartbeat of the patient.
- n.* a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds

ANSWERS: 170. lab, 171. jeopardy, 172. MRI, 173. lever, 174. paraplegia, 175.

virtual, 176. encouraged, 177. stethoscope

178. This device is used to _____ brain cancer and other tumors.

- v.* to determine or distinguish the nature of a problem or an illness through a careful analysis

179. The patient was diagnosed with a _____ in her lung.

- n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

180. _____ weight is the sum of all the atoms.

- adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)

181. Even after the wound has healed, a _____ remains.

- n.* a mark that remains on the skin after a wound has healed

182. She received special _____ training at the hospital.

- adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

183. This factory employs a _____ manufacturing system.

- adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires

184. My accidental _____ got better right away.

- n.* harm done to a person's or an animal's body caused by an accident or an attack

185. The young startup aims to _____ the established players in the industry through innovation.

- v.* to replace or take the place of something or someone, often by force or through strategic maneuvering; to make obsolete or obsolete by introducing a superior or more advanced alternative

ANSWERS: 178. diagnose, 179. tumor, 180. Molecular, 181. scar, 182. clinical, 183. cellular, 184. injury, 185. supplant

186. He tried to _____ the seedling into a larger pot.

- v.* to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another

187. Her research team made an important _____.

- n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

188. The _____ had received a mild snowfall the previous week.

- n.* a long depression on the surface of the land, which typically contains a river

189. This smartphone has a collision _____ function.

- n.* the act of discovering or identifying the presence of something

190. The school's _____ committee met to discuss the student's behavior.

- adj.* of or relating to the punishment of people who break the rules; of or relating to a specific field of academic study

191. The brain is an incredibly complex organ that controls the body's _____.

- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

192. She spent hours tracing her family tree and discovering new information about her _____.

- n.* the study of family history and the tracing of lineages

ANSWERS: 186. transplant, 187. discovery, 188. valley, 189. detection, 190. disciplinary, 191. function, 192. genealogy

193. The vaccination does not necessarily make you completely _____.
- adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
194. It seems _____ that he has forgotten our scheduled meeting.
- adj.* likely to happen or likely to be true
195. These chemicals _____ the effect of metabolism.
- v.* to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
196. The deep _____ on my arm required several stitches to close.
- n.* a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury
197. The archaeologist carefully pieced together the tiny _____ of pottery found at the dig site.
- n.* a small piece or part broken off or detached
198. The researcher demonstrated the superiority of quantum _____ in several mathematical tasks.
- n.* the act or process of calculating something, especially an answer or amount, by using a machine or calculator
199. Every human is responsible for taking care of the Earth's _____.
- n.* the natural world such as air, water, and land in which humans, animals, and plants live
200. People tend to make _____ predictions.
- adj.* of, relating to, or consisting of lines or length; able to be expressed as a straight line, especially on a graph

ANSWERS: 193. immune, 194. probable, 195. modulate, 196. laceration, 197. fragments, 198. computation, 199. environment, 200. linear

201. The _____ in the blood vessel required immediate medical attention.
- n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
202. In terms of _____ he was head and shoulders above his classmates.
- n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
203. The company _____ employees to buy low-price items without approval to achieve efficient purchasing.
- v.* to give someone the power or authority to do something
204. The teacher attempted to _____ the root cause of our mistake.
- v.* to think about in-depth and evaluate to discover essential features or meaning
205. The _____ to the new class was informative and engaging.
- n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
206. People select Internet _____ not only in terms of price but also in terms of transmission speed.
- n.* a person or an organization that supplies somebody with something needed or wanted
207. The pharmacist not only prescribes the _____ but also guides its proper use.
- n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

ANSWERS: 201. clot, 202. intelligence, 203. empowered, 204. analyze, 205. introduction, 206. providers, 207. medication

208. The rabbit _____ over the fence.

- v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.

209. He beat out a jazz _____ on the cajones.

- n.* a strong regular repeated pattern of sounds, words, or musical notes that are used in music, poetry, and dancing

210. The earth began to _____ and he knew he had to leave the building immediately.

- v.* to shake or vibrate violently and for a short time

211. In junior high school, we had to dissect a frog in _____ class.

- n.* the scientific study of life and the natural processes of living things

212. The _____ expectations of the customers led to a decrease in sales.

- adj.* describing a need, goal, or expectation that has not been satisfied or fulfilled

213. I decided to seek counseling on the advice of my _____.

- n.* one of a group of a coworker, especially in a profession or a business

214. Some seaweed was used as _____ medicine in ancient times.

- n.* people in general, especially those of a particular group or type

215. The technician used a _____ tool to fix the machine.

- adj.* designed to be held in one hand; portable, and compact enough to be carried or used on the go

216. Skydiving is an overwhelming _____ for many people.

- n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion

ANSWERS: 208. hopped, 209. rhythm, 210. quake, 211. biology, 212. unmet, 213. colleague, 214. folk, 215. handheld, 216. thrill

217. The customer on the Internet has to choose one from a formidable _____ of products.
- n.* a large group or collection of things or people, especially one that is impressive or attractive
218. The couple began to _____ over which restaurant to go to for dinner.
- v.* to express differing opinions or points of view, often in a heated or contentious manner; to present a case or reasoning to persuade or convince others
219. To lower _____ it is important to maintain a healthy diet and exercise regularly.
- n.* a medical condition characterized by abnormally high blood pressure in the arteries, often leading to an increased risk of heart disease, stroke, and other health problems
220. My boss wouldn't _____ of the plan.
- v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
221. Tech companies often employ _____ ducts and other materials in their office interiors.
- adj.* having no protection or shield from something, such as bad weather, attack, or criticism
222. This blog offers a variety of tips for _____ everyday life.
- v.* to hit and cut somebody or something roughly and violently; to find a bug in a computer program and break into their systems or networks
223. The presidential _____ is the most luxurious room in the hotel.
- n.* a set of rooms designated for a particular purpose or activity, especially a set of rooms in a hotel or private residence used as a living unit; a musical composition of several movements only loosely connected; the group following and attending to some important person

ANSWERS: 217. array, 218. argue, 219. hypertension, 220. approve, 221. exposed, 222. hacking, 223. suite

224. We invited some friends for a _____ party.

- n.* a drink, usually an alcoholic one, made by mixing one or more spirits (= strong alcoholic drinks) and fruit juice; an appetizer served as a first course at a meal

225. _____ algorithms are essential for identifying and analyzing patterns in biological data.

- n.* the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

226. She was struggling to make a _____ between two job offers.

- n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options

227. The athlete's record-breaking performance _____ all expectations.

- v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something

228. Detergent weakens the surface tension at the _____ of two liquids.

- n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

229. The beautiful _____ garden in the park was a sight to behold.

- n.* a flowering plant with large, showy, trumpet-shaped flowers, typically symbolizing purity, innocence, and beauty

230. He tried to _____ the amount of product that was needed to complete the job.

- v.* to express or measure something in numerical terms

ANSWERS: 224. cocktail, 225. Bioinformatics, 226. decision, 227. surpassed, 228. interface, 229. lily, 230. quantify

231. A balanced _____ is more important for health than supplements.
- n.* the food and drink that a person, animal, or community eats and drinks regularly; a legislative assembly in certain countries, for example, Japan
232. We must _____ to this matter.
- v.* to be present at an event, to go to a place
233. Governments _____ their citizens to buy eco-friendly products through subsidies.
- v.* to make someone want to do in a particular way by offering them a reward
234. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation
235. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation
236. The doctor carefully examined the _____ medical history.
- n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
237. I have a parrot as a _____.
- n.* an animal that you have at home as a companion and treated kindly
238. It would be best if you burned off _____ through vigorous exercise.
- n.* unit of heat defined as the quantity of heat required to raise the temperature of 1 gram of water by 1 degree Celsius at atmospheric pressure, used by nutritionists to measure how much energy food will produce

ANSWERS: 231. diet, 232. attend, 233. incentivize, 234. innovation, 235. improvisation, 236. patient's, 237. pet, 238. calories

239. He made a New Year's _____ to exercise more and eat healthier.
- n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
240. The cardiologist analyzed the _____ cells in the patient's heart tissue.
- n.* a type of muscle cell found in muscle tissue, responsible for contraction and movement
241. We need to _____ our data to recover quickly from a disaster.
- v.* to move the power, control, or authority of an organization, government, or system from a single place to several smaller ones
242. As technology evolves, we need to _____ our work styles.
- v.* to redesign or restructure something such as a machine, system, organization, etc.
243. The project's _____ made it difficult for the team to complete it on time.
- n.* the state or quality of being complicated or intricate and difficult to understand
244. The museum _____ conserved the ancient manuscripts.
- n.* a person whose job is to manage the objects or artworks in a museum, art gallery, etc.
245. He pulled his waterproof _____ up to protect himself from the rain.
- n.* a covering for the head and neck, especially one attached to a garment
246. The actress's performance ran the _____ of emotions, from anger to joy to sorrow.
- n.* the complete range or scope of something; the entire spectrum or extent of a particular quality, emotion, or situation

ANSWERS: 239. resolution, 240. myocyte, 241. decentralize, 242. reengineer, 243. complexity, 244. curator, 245. hood, 246. gamut

247. He _____ the ball out of the park with his home run.

- v.* to hit someone or something hard or noisily

248. The era of the industrial revolution was a crucial _____ of history.

- n.* any stage in a series of events, change, or development

249. The _____ report showed no signs of cancer, giving her family a sense of relief.

- n.* the study of the nature and cause of diseases and disorders; the medical specialty that deals with the diagnosis and treatment of diseases and disorders

250. As an _____ he had the right to make his own decisions and live his life as he saw fit.

- n.* a single person or thing, as distinct from a group

251. Necessity is the mother of _____.

- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing

252. He had undergone heart _____ years before.

- n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

253. Consumption of vegetables may aid in the prevention of _____ cancer.

- n.* the punctuation mark (:) used to introduce a list, summary, explanation, etc., or before reporting what someone has said; a significant part of the large intestine, the final section of the digestive system

254. Scientists are studying the human _____ to understand better how proteins work in the body.

- n.* the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications

ANSWERS: 247. whacked, 248. phase, 249. pathology, 250. individual, 251. invention, 252. surgery, 253. colon, 254. proteome

255. The sun's _____ shone through the window and illuminated the room.
- n.* a long, sturdy piece of timber, metal, or other material used to support a structure or span a distance; a ray or stream of light emitted by a source
256. The teacher had to _____ a disagreement between two students over a stolen pencil.
- v.* to try to bring about an agreement or understanding between people who are in conflict
257. The company can _____ access its employees' computers for troubleshooting purposes.
- adv.* at a distance; not directly or easily accessible
258. The majority of students actively _____ in the college's intramural sports program.
- v.* to take part in something
259. An _____ scan showed that the baby was a girl.
- n.* higher frequency sound than humans can hear
260. Parallel lines are, by _____ lines on the same plane that never cross.
- n.* a concise explanation of the meaning of a word, phrase, or symbol
261. Sensors convert physical phenomena into _____ signals.
- adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
262. The plant's leaves contain a deadly _____ that can cause hallucinations and seizures.
- n.* a substance that can cause illness, injury, or death when ingested, inhaled, or absorbed through the skin; something harmful, malicious, or toxic; the act of damaging or ruining a relationship; (verb) to introduce a substance into something or someone harmful and potentially deadly

ANSWERS: 255. beam, 256. mediate, 257. remotely, 258. participated, 259.

ultrasound, 260. definition, 261. digital, 262. poison

263. The once-thriving city has _____ into a crime-ridden slum.
- v. (of a person, animal, or plant) to become worse in health or physical condition
264. The cardiac monitor displays the intensity of your _____.
- n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
265. A smaller car will _____ less fuel.
- v. to spend something, especially fuel, energy, or time, in a large amount
266. You _____ a bill in the change machine, and the coins pop out.
- v. to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
267. Companies developing self-driving cars consistently _____ the emerging technologies.
- v. to introduce new methods, ideas, or products
268. The leaders of the two countries met to _____ on the issue.
- v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
269. The cerebral _____ consists of six layers.
- n. the outermost layer of an organ, especially the brain
270. _____ is the second most abundant element on earth after oxygen.
- n. a chemical element with the symbol Si that is a hard, brittle crystalline solid with a blue-grey metallic luster and used for the transistors and integrated circuit chips in computers

ANSWERS: 263. degenerated, 264. pulse, 265. consume, 266. stick, 267. innovate, 268. confer, 269. cortex, 270. Silicon

271. The scientist conducted a study that provided _____ details about the species' behavior.

adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise

272. We can use this campaign as a bargaining _____ in the negotiations.

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

273. The _____ partially destroyed my vehicle.

n. an unfortunate event, especially one causing damage or injury

274. Eyeless fish _____ in dark caves.

v. to develop gradually, or to cause the development of something or someone gradually

275. The computer hard drive had plenty of storage space but was running low on available _____.

n. a unit of digital information that consists of 8 bits, typically used to represent a single character of text or a small amount of computer code

276. The patient underwent a _____ scan to diagnose their medical condition.

n. the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

277. Eating a fatty meal can trigger _____ pain in some people.

n. a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion

278. This consulting firm decided to _____ the two companies into one.

v. to combine or integrate things, or to cause this to happen

ANSWERS: 271. specific, 272. chip, 273. accident, 274. evolved, 275. bytes, 276. radiology, 277. gallbladder, 278. merge

279. The evolution of processors has dramatically improved the performance of ____.
- n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
280. She _____ to the audience after her performance.
- v.* to bend your knee or body, or lower your head; (noun) a weapon made of a curved piece of wood or other flexible material, strung with a cord and used to shoot arrows
281. The soup was made with bone _____ giving it a rich and savory flavor.
- n.* a soft, fatty, vascular substance in the cavities of bones, in which blood cells are produced; the choicest or most essential part of some idea or experience
282. It's notoriously challenging to _____ birth rates.
- v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience

ANSWERS: 279. AI, 280. bowed, 281. marrow, 282. predict