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Vocabulary Builder Reference from...

Aicha Evans: Your self-driving robotaxi is almost here

| TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

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.

accompany

v. to go somewhere or travel with someone or something

synonym: follow, escort, attend

(1) **accompany** a chicken dish, (2) **accompany** the book

Please let me know if you want to **accompany** me to my hometown.

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**.

adapt

v. to make fit for or change to suit a new purpose or environment

synonym: adjust, acclimate, accustom

(1) **adapt** fully to the environment, (2) **adapt** as needed

I advised him to **adapt** to his new surroundings.

rotary

adj. relating to, revolving around, or characterized by rotation or a revolving motion

synonym: circular, revolving, spinning

(1) **rotary** motion, (2) **rotary** tool

The **rotary** engine is known for its smooth and efficient operation.

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.

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.

emerging

adj. starting to exist, mature, or become well-known

synonym: arising, occurring, state-of-the-art

(1) **emerging** country, (2) **emerging** technologies

Emerging technologies have dramatically improved productivity in various industries.

thread

n. a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching

synonym: filament, string, yarn

(1) **thread** a catheter, (2) start a new **thread**

The detective followed a **thread** of clues which ultimately led to the suspect's arrest.

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.

transport

n. a system for moving people or products from one location to another using automobiles, roads, and so on

synonym: shipment, transit, conveyance

(1) **transport** facilities, (2) access to public **transport**

Enhanced rail **transportation** is crucial for our business.

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.

flywheel

n. a large, heavy wheel with a smooth rim that is used to store rotational energy and to smooth out fluctuations in the speed of an engine or other machine

(1) **flywheel** energy, (2) the **flywheel** on the car's engine

The exercise bike has a large **flywheel** that provides resistance and simulates outdoor cycling.

fast-forward

v. to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording

synonym: advance, hasten, speed up

(1) **fast-forward** 10 seconds, (2) **fast-forward** to the good part

I like to **fast-forward** through commercials when watching TV shows.

movement

n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

synonym: motion, progression, action

(1) a circular **movement**, (2) **movement** of troops

The **movement** of the dancers on stage was graceful and elegant.

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

commute

v. to regularly travel a particular journey, especially between one's home and place of work; (noun) a regular journey of some distance to and from your place of work

synonym: travel, journey, trip

(1) **commute** to work, (2) daily **commute**

He had to **commute** two hours each way to get to work.

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.

transformation

n. a complete change in form, nature, or appearance of someone or something

synonym: change, conversion, renewal

(1) the **transformation** of a tadpole into a frog, (2) cast a **transformation** spell

Understanding unitary **transformations** of a normal matrix require considerable mathematical sophistication.

involve

v. to include or affect someone or something as a necessary part of something else

synonym: implicate, include, engage

(1) **involve** a lot of paperwork, (2) **involve** a high degree of risk

The investigation **involves** several government agencies and is expected to take several months.

robotaxi

n. a type of autonomous vehicle that operates as a taxi service, transporting passengers without the need for a driver

synonym: autonomous taxi, self-driving cab, robotic cab

(1) **robotaxi** service, (2) self-driving **robotaxi**

The cost of transportation could be significantly reduced with the adoption of **robotaxis**.

alphabet

n. a character set that includes letters and is used to write a language

synonym: ABC's

(1) letters of an **alphabet**, (2) an **alphabet** of manual signs

He strove to memorize the Hebrew **alphabet**.

disappoint

v. to fail to meet someone or their hopes or expectations; to make someone feel sad

synonym: sadden, dismay, frustrate

(1) **disappoint** the audience, (2) don't **disappoint** me

She worked very hard not to **disappoint** her boss's expectations.

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**.

wasteful

adj. characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense

synonym: uneconomical, extravagant, profligate

(1) **wasteful** practices, (2) **wasteful** habits

Buying new clothes every week is a **wasteful** use of money and resources.

expense

n. the money, time, or effort incurred or required for something

synonym: cost, expenditure, outlay

(1) enormous **expenses**, (2) **expense** account

For this project to be successful, we must control **expenses** strictly.

contribute

v. to give something, especially money or goods, to provide or achieve something together with other people

synonym: donate, devote, commit

(1) **contribute** a large sum of money to the fund,

(2) **contribute** to society

Government workers cannot **contribute** to political campaigns.

pollution

n. the introduction of harmful substances or waste into the natural environment that causes adverse change

synonym: corrosion, deterioration, corruption

(1) environmental **pollution**, (2) high levels of air **pollution**

The **pollution** is endangering the local plants and animals.

traffic

n. the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time

synonym: congestion, jam, flow

(1) **traffic** jam, (2) heavy **traffic**

We decided to take a detour to avoid the construction **traffic** on the main road.

urban

adj. relating to or located in a town or city

synonym : metropolitan, civic

(1) **urban** planning, (2) **urban** property owners

Only a small number of **urban** utilities offer sanitation services.

shuttle

n. a vehicle or boat that regularly moves between two places; bobbin that passes the weft thread between the warp threads

synonym : ferry, transport, convey

(1) space **shuttle**, (2) **shuttle** service

The **shuttle** bus will take you to the airport in 15 minutes.

frank

adj. honest and sincere; open and candid in expression

synonym : candid, direct, freehearted

(1) **frank** and open discussion, (2) make a **frank** apology

Full involvement means **frank** and prompt responses.

optimize

v. to make the best or most effective use of something

synonym : advance, amend, improve

(1) **optimize** a process, (2) **optimize** control for cooling

The essence of economics is to **optimize** the allocation of limited resources.

specifically

adv. only associated with or meant for one thing

synonym : especially, particularly, notably

(1) designed **specifically** for men, (2) for **specifically**

American customers

This ad campaign is aimed **specifically** at young women.

cusp

n. a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved

synonym : point, apex, tip

(1) **cusp** of change, (2) a single **cusp**

The project was on the **cusp** of success and needed a little more funding.

vision

n. the ability to think about or see the future with imagination and intelligence; the faculty of being able to see

synonym : sight, image, concept

(1) a prodigious **vision**, (2) telescopic **vision**

Driving is difficult for me because of my poor **vision**.

core

n. the most essential or fundamental part of something

synonym : center, basis, heart

(1) the **core** of an apple, (2) **core** business activity

These gas nebulas are merely newborn galactic **cores**.

representation

n. the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

synonym : delegacy, manifestation, expression

(1) sales **representation**, (2) binary **representation**

A person who has been declared incompetent should have legal **representation**.

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.

interaction

n. the act of connecting with someone, mainly when working, playing, or spending time with them

synonym : dealings, exchange, relations

(1) the **interaction** between man and his environment,

(2) **interaction** among human beings

The **interaction** of the two groups is good for brainstorming.

leap

v. to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

synonym : jump, bound, hop

(1) **leap** to a conclusion, (2) **leap** of faith

The athlete was able to **leap** over the hurdle with ease.

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.

advancement

n. the development, improvement, or progress of something

synonym : progression, breakthrough, improvement

(1) **advancement** of knowledge, (2) career **advancement**

Competition between countries resulted in fast technological **advancement**.

sensor

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

synonym : detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

software

n. a set of computer programs and associated documentation and data for doing particular computational jobs

synonym : program, system, operating system

(1) **software** architect, (2) copyrighted **software**

The company specializes in both hardware and **software**.

locate

v. to specify or determine the exact position of someone or something

synonym : discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

pedestrian

n. a person who is in the street, especially in an area where vehicles go

synonym : walker, footer

(1) **pedestrian** accident, (2) **pedestrian** safety

A **pedestrian** is an uncommon sight in this area.

gesture

n. a movement of the hands, head, or face that express a particular meaning

synonym : motion, expression, gesticulation

(1) **gesture** of goodwill, (2) hand **gesture**

She made a facial **gesture** to express disagreement.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym : accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

skeleton

n. the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant

synonym : bones, frame, structure

(1) the steel **skeleton** of a building, (2) **skeleton** hand

Scientists studied the ancient **skeleton** to learn more about the creature's anatomy.

framework

n. the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text

synonym : structure, scheme, foundation

(1) legal **framework**, (2) the **framework** of a house

He devised a new analytical **framework** to capture the phenomenon.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym: build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

zone

n. a specific area, region, or section that is marked off or defined in some way

synonym: area, region, territory

(1) time **zone**, (2) **zone** defense

He was reluctant to leave his comfort **zone** and try something new.

distracted

adj. having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried

synonym: preoccupied, inattentive, absent-minded

(1) get **distracted** by an urgent matter, (2) **distracted** by a conversation

I was so **distracted** by my phone that I nearly walked into a lamppost.

algorithm

n. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

synonym: logic, method, rule

(1) the RSA **algorithm**, (2) **algorithm** for image processing

We can evaluate the performance of an **algorithm** in terms of computation time.

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**.

interpret

v. to explain or assign the meaning of information, actions, etc.

synonym: decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

resolve

v. to find a suitable answer to the problems or difficulty

synonym: decide, determine, fix

(1) **resolve** a dispute, (2) **resolve** the computer error

This company **resolves** its battery problem completely.

continuous

adj. occurring or existing without a pause or interruption

synonym: ceaseless, regular, repeated

(1) **continuous** improvement, (2) a **continuous** row of warehouses

The heavy snow has been **continuous** since last morning.

coverage

n. the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

synonym: reportage, scope, range

(1) full- **coverage** insurance, (2) contractual **coverage**

The scandal received widespread media **coverage**.

fatigue

n. a feeling of tiredness or weariness, especially as a result of physical or mental exertion; the reduction in the strength or efficiency of a material or structure due to repeated use or stress

synonym: exhaustion, weariness, tiredness

(1) **fatigue** breaking, (2) **fatigue** caused by overwork

The metal showed signs of **fatigue** after being subjected to repeated stress.

impair

v. to damage something or make it weaker or worse

synonym: degrade, mar, deface

(1) **impair** my health, (2) **impair** insulin sensitivity
The accident made his vision **impaired**.

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.

supplement

n. something that is added to something else to make it better or complete it

synonym: complement, addendum, accessory

(1) wage **supplement**, (2) use of dietary **supplements**

Certain **supplements** may promote tumor growth.

radar

n. a technology that employs radio waves to locate items that cannot be seen

synonym: sonar, radiolocation

(1) **radar** air traffic control, (2) **radar** scanning

Radar systems cannot spot the submarine.

centimeter

n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

(1) **centimeter** measurement, (2) thirty **centimeters** tall

The room was only one **centimeter** wider than the piano, making it a tight fit.

depth

n. the distance between the top and bottom of something; between the top surface and a distance below it

synonym: deepness, profoundness, extent

(1) **depth** camera, (2) the **depth** of the water

The pond's **depth** was around five feet.

perception

n. a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

synonym : understanding, idea, awareness

(1) keen **perception**, (2) **perception** of a stimulus

He is a man admired for the depth of his **perception**.

long-range

adj. relating to or extending over a long distance, period of time, or range of possibilities

synonym : far-reaching, extended, distant

(1) **long-range** radar, (2) **long-range** weather forecast

The military uses **long-range** missiles to hit targets from far away.

infrared

adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control

synonym : thermal, warm, radiant

(1) an **infrared** lamp, (2) **infrared** radiation

The **infrared** camera revealed a hidden image on the surface.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym : give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

magic

n. beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

synonym : fascination, illusion, wizardry

(1) a **magic** spell, (2) she is **magic**

He performed **magic** tricks with sophisticated moves.

mod

n. a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their

clothes consciousness and opposition to the rockers

synonym : alteration, modification, tweak

(1) **mod** culture, (2) a house with **mod** cons

The **mod** for the video game added new features and improved gameplay.

continuously

adv. without being interrupted or paused; repeatedly

synonym : constantly, frequently, always

(1) use one thing **continuously**, (2) **continuously** removed

The country's domestic coal consumption has been **continuously** declining for decades.

redundant

adj. unnecessarily repetitive or excessive; exceeding what is necessary or essential; characterized by unnecessary repetition or duplication of efforts

synonym : unnecessary, superfluous, surplus

(1) **redundant** worker, (2) **redundant** equipment

The report contained **redundant** information that could have been eliminated.

fused

adj. joined together or combined into one; blended or integrated in a way that creates a new entity

synonym : merged, blended, united

(1) **fused** glass, (2) **fused** bones

The **fused** wires in the electrical circuit caused a power outage.

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.

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.

confidence

n. the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something

synonym: self-trust, certainty, belief

(1) **confidence** as a teacher, (2) boost my **confidence**

Skill and **confidence** are an unconquered army.

brand

n. a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

synonym: trademark, label, symbol

(1) create a **brand** logo, (2) the **brand** of the new car

There's a new **brand** of hero in the movies now.

concept

n. an idea or principle associated with something abstract

synonym: idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

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.

scenario

n. a description of possible actions or events in the future; a written outline of a play, film, or literary work

synonym: plan, scheme, procedure

(1) the worst case **scenario**, (2) number of different

scenarios

The president prepared several possible **scenarios** for an enemy attack.

complicated

adj. involving a lot of different things or parts in a way that is difficult to understand or analyze

synonym: complex, convoluted, intricate

(1) a **complicated** process, (2) become increasingly

complicated

He did **complicated** pen-and-ink drawings in just a few days.

boundary

n. a real or imaginary line that marks the limit or extent of something and separates it from other things or places

synonym: border, frontier, limitation

(1) geographical **boundary**, (2) the **boundary** between reality and fantasy

He wandered the **boundary** between life and death by gunfire.

simulate

v. to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

synonym: pretend, imitate, mimic

(1) **simulate** climate change, (2) **simulate** a future scenario

He had painted the wood to **simulate** stone.

fabric

n. cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

synonym: cloth, material, goods

(1) a hand-loomed **fabric**, (2) **fabric** of creation

These synthetic **fabrics** are used in military vests because of

their excellent abrasion resistance.

react

v. to take action in response to something

synonym: respond, reply, oppose

(1) **react** at a high temperature, (2) **react** against his way of thinking

How did he **react** to your idea?

loop

n. a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

synonym: circle, curl, spiral

(1) exit from a **loop**, (2) positive feedback **loop**

Many people in this city use the **loop** railway for transportation.

aviation

n. the activity or process of designing, building, flying, and maintaining aircraft

synonym: flying, flight, aeronautics

(1) global **aviation** industry, (2) civil **aviation**

The **aviation** expert analyzed the fluid around the aircraft.

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.

guidance

n. advice or instructions given to help direct someone's behavior or decision-making

synonym: advice, direction, support

(1) vocational **guidance**, (2) **guidance** counselor

The mentor provided **guidance** to the young entrepreneur, helping her navigate the business world.

operator

n. a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations

synonym: controller, handler, manipulator

(1) **operator** error, (2) an elevator **operator**

The **operator** of the machine must follow strict safety protocols.

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.

proceeds

n. the money or profit earned from a particular activity or venture; the total amount collected from a sale or fundraiser

synonym: earnings, profits, income

(1) **proceeds** of a sale, (2) criminal **proceeds**

The **proceeds** from the charity auction will go towards building a school in a developing country.

allude

v. to suggest or make reference to something indirectly

synonym: imply, indicate, hint

(1) **allude** to his low origin, (2) **allude** to the planning

He **alluded** to the problem but did not mention it directly.

visible

adj. capable of being seen; or open to easy view

synonym: clear, observable, seeable

(1) **visible** stars, (2) **visible** by X-ray

My home is easily **visible** from the shore.

microscope

n. an instrument used to see objects or substances that are too small to be seen with the naked eye

synonym: lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

microbe

n. a tiny living thing that can only be seen with a microscope and that may cause disease

synonym: germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer

Microbes thrive on the surface of the human skin.

telescope

n. a device like a tube in shape containing lenses used to magnify and observe distant objects

(1) a binocular **telescope**, (2) look through a **telescope**

This facility has the largest astronomical **telescope** in the country.

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.

galaxy

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

synonym: star cluster, nebula, star system

(1) elliptic **galaxy**, (2) a **galaxy** of famous actors

The Milky Way **galaxy** has numerous water-bearing planets.

light-year

n. a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

(1) **light-year** distance, (2) billions of **light-years**

Proxima Centauri is the closest star to Earth, located about 4.24 **light-years** away.

transform

v. to change in outward structure or looks;

synonym: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

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.

astrophysics

n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe

(1) **astrophysics** research, (2) neutrino **astrophysics**

He was studying **astrophysics** in an attempt to understand the origins of the universe.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments**

His **experiments** showed highly positive results.

graduated

adj. having received a degree from a school, college, or university; marked with or divided into levels or degrees

synonym: completed, finished, earned

(1) **graduated** taxation, (2) **graduated** flask

She was a **graduated** student of a prestigious university.

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**.

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.

perceive

v. to become aware or conscious of something through the senses

synonym: sense, discern, feel

(1) **perceive** a threat, (2) **perceive** light

Australia is widely **perceived** as having low levels of corruption.

progression

n. the act or process of changing to the next stage or phase or moving forward

synonym: advancement, development, evolution

(1) **progression** of civilization, (2) **progression** of disease

The company has made great strides in its **progression** toward sustainability.

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.

rigorous

adj. allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate

synonym: severe, exact, strict

(1) **rigorous** standards, (2) have **rigorous** criticism

The way he manages his employees is extremely **rigorous**.

tolerate

v. to allow something to exist or happen, even if it is disliked or opposed

synonym: endure, put up with, bear

(1) **tolerate** his disrespectful behavior, (2) **tolerate** ambiguity

I can't **tolerate** spicy food, and it always gives me heartburn

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

generation

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

synonym: cohort, age group, era

(1) **generation** gap, (2) the **generation** of electricity

The younger **generation** has different values and beliefs than the older one.

technological

adj. based on scientific and industrial progress

synonym: specialized, technical

(1) **technological** advancement, (2) **technological** policy

Technological advances have disrupted many industries.

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.

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.

broad

adj. very wide; general

synonym: wide, expansive, comprehensive

(1) attract **broad** attention, (2) a **broad** mind

He accumulated wealth across a **broad** spectrum of assets.

Session 2: Spelling

1. motion se___r lighting *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
2. gr_____ed taxation *adj.* having received a degree from a school, college, or university; marked with or divided into levels or degrees
3. designed spe_____lly for men *adv.* only associated with or meant for one thing
4. re_____nt worker *adj.* unnecessarily repetitive or excessive; exceeding what is necessary or essential; characterized by unnecessary repetition or duplication of efforts
5. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
6. neutrino ast_____ics *n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
7. pe_____ve a threat *v.* to become aware or conscious of something through the senses
8. ped_____an accident *n.* a person who is in the street, especially in an area where vehicles go
9. 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

ANSWERS: 1. sensor, 2. graduated, 3. specifically, 4. redundant, 5. involve, 6. astrophysics, 7. perceive, 8. pedestrian, 9. stick

10. she is ma__c *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
11. 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
12. ri____us standards *adj.* allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate
13. ex____e account *n.* the money, time, or effort incurred or required for something
14. th____d a catheter *n.* a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching
15. ob____s reasons *adj.* easy to see, discover or understand

ANSWERS: 10. magic, 11. AI, 12. rigorous, 13. expense, 14. thread, 15. obvious

16. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
17. make a fr__k apology *adj.* honest and sincere; open and candid in expression
18. op_____or error *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
19. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
20. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
21. an image se____r *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
22. vi_____e by X-ray *adj.* capable of being seen; or open to easy view
23. keen per_____on *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
24. a br__d mind *adj.* very wide; general
25. lo___e a tumor *v.* to specify or determine the exact position of someone or something

ANSWERS: 16. movement, 17. frank, 18. operator, 19. locate, 20. complicated, 21. sensor, 22. visible, 23. perception, 24. broad, 25. locate

26. re_____ly operate *adv.* at a distance; not directly or easily accessible
27. in_____et the question *v.* to explain or assign the meaning of information, actions, etc.
28. sh_____e service *n.* a vehicle or boat that regularly moves between two places; bobbin that passes the weft thread between the warp threads
29. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
30. ind_____lly designed product *adv.* separately or apart from others
31. the steel sk_____on of a building *n.* the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant
32. for spe_____lly American customers *adv.* only associated with or meant for one thing
33. 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
34. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
35. 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

ANSWERS: 26. remotely, 27. interpret, 28. shuttle, 29. complicated, 30. individually, 31. skeleton, 32. specifically, 33. silicon, 34. transport, 35. hack

36. ra__r air traffic control *n.* a technology that employs radio waves to locate items that cannot be seen
37. the bo____ry between reality and fantasy *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
38. ro____y motion *adj.* relating to, revolving around, or characterized by rotation or a revolving motion
39. space sh____e *n.* a vehicle or boat that regularly moves between two places; bobbin that passes the weft thread between the warp threads
40. high levels of air po____on *n.* the introduction of harmful substances or waste into the natural environment that causes adverse change
41. the tra_____ion of a tadpole into a frog *n.* a complete change in form, nature, or appearance of someone or something
42. mi____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
43. si____te a future scenario *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
44. con____sly removed *adv.* without being interrupted or paused; repeatedly
45. bo__d up a staircase *v.* to move forward by leaps and bounds; to form the boundary of something

ANSWERS: 36. radar, 37. boundary, 38. rotary, 39. shuttle, 40. pollution, 41. transformation, 42. microbe, 43. simulate, 44. continuously, 45. bound

46. a circular mo____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
47. ad____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
48. 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
49. 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
50. fas____ard to the good part *v.* to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording
51. pathogenic mi____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
52. va____y bottom *n.* a long depression on the surface of the land, which typically contains a river
53. an aut____us judiciary *adj.* capable of governing or controlling its affairs
54. self-driving ro____xi *n.* a type of autonomous vehicle that operates as a taxi service, transporting passengers without the need for a driver

ANSWERS: 46. movement, 47. addition, 48. digital, 49. hack, 50. fast-forward, 51. microbe, 52. valley, 53. autonomous, 54. robotaxi

55. a ga___y of famous actors *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
56. wa_____ul habits *adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense
57. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers
58. get dis_____ed by an urgent matter *adj.* having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried
59. adv_____nt of knowledge *n.* the development, improvement, or progress of something
60. 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
61. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
62. l__p to a conclusion *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward

ANSWERS: 55. galaxy, 56. wasteful, 57. addition, 58. distracted, 59. advancement, 60. AI, 61. detect, 62. leap

63. mic_____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
64. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
65. daily co_____e *v.* to regularly travel a particular journey, especially between one's home and place of work; (noun) a regular journey of some distance to and from your place of work
66. have ri_____us criticism *adj.* allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate
67. enormous ex_____es *n.* the money, time, or effort incurred or required for something
68. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
69. co_____e to work *v.* to regularly travel a particular journey, especially between one's home and place of work; (noun) a regular journey of some distance to and from your place of work
70. number of different sc_____ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
71. positive feedback l____p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself

ANSWERS: 63. microscope, 64. engineer, 65. commute, 66. rigorous, 67. expense, 68. construct, 69. commute, 70. scenario, 71. loop

72. a hand-loomed fa___c *n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
73. ac_____ny a chicken dish *v.* to go somewhere or travel with someone or something
74. vocational gu_____ce *n.* advice or instructions given to help direct someone's behavior or decision-making
75. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
76. a con_____us row of warehouses *adj.* occurring or existing without a pause or interruption
77. exit from a l__p *n.* a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
78. the int_____on between man and his environment *n.* the act of connecting with someone, mainly when working, playing, or spending time with them
79. im___r my health *v.* to damage something or make it weaker or worse
80. tec_____cal advancement *adj.* based on scientific and industrial progress
81. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
82. binary rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting

ANSWERS: 72. fabric, 73. accompany, 74. guidance, 75. software, 76. continuous, 77. loop, 78. interaction, 79. impair, 80. technological, 81. involve, 82. representation

83. heavy tr____c *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
84. ad__t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
85. answer questions ind_____lly *adv.* separately or apart from others
86. tr____c jam *n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
87. tr_____rm heat into power *v.* to change in outward structure or looks;
88. start a new th___d *n.* a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching
89. per_____on of a stimulus *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

ANSWERS: 83. traffic, 84. adapt, 85. individually, 86. traffic, 87. transform, 88. thread, 89. perception

90. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
91. al___e to the planning *v.* to suggest or make reference to something indirectly
92. c__p of change *n.* a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved
93. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
94. dis_____ed by a conversation *adj.* having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried
95. to_____te his disrespectful behavior *v.* to allow something to exist or happen, even if it is disliked or opposed
96. im___r insulin sensitivity *v.* to damage something or make it weaker or worse
97. series of exp_____nts *n.* the scientific test conducted to observe what happens and gain new knowledge
98. c__e business activity *n.* the most essential or fundamental part of something
99. 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
100. me_____al chemistry *adj.* of or relating to the treatment or cure of disease

ANSWERS: 90. industrious, 91. allude, 92. cusp, 93. generation, 94. distracted, 95. tolerate, 96. impair, 97. experiment, 98. core, 99. digital, 100. medicinal

101. ind_____us student	<i>adj.</i> hardworking, diligent, and persistent in effort
102. con_____us improvement	<i>adj.</i> occurring or existing without a pause or interruption
103. fu__d bones	<i>adj.</i> joined together or combined into one; blended or integrated in a way that creates a new entity
104. tr_____rm an education system	<i>v.</i> to change in outward structure or looks;
105. wage sup_____nt	<i>n.</i> something that is added to something else to make it better or complete it
106. hu_____g sound	<i>adj.</i> producing a continuous, low, vibrating sound like that of the bee
107. career adv_____nt	<i>n.</i> the development, improvement, or progress of something
108. as___t a patient	<i>v.</i> to help someone in doing anything
109. si_____n wafer	<i>n.</i> 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
110. a vi_____l image	<i>adj.</i> being actually such in almost every respect; existing in essence or effect though not in actual fact
111. letters of an al_____et	<i>n.</i> a character set that includes letters and is used to write a language
112. boost my con_____ce	<i>n.</i> the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something

ANSWERS: 101. industrious, 102. continuous, 103. fused, 104. transform, 105. supplement, 106. humming, 107. advancement, 108. assist, 109. silicon, 110. virtual, 111. alphabet, 112. confidence

113. gu____ce counselor *n.* advice or instructions given to help direct someone's behavior or decision-making
114. pro_____on of civilization *n.* the act or process of changing to the next stage or phase or moving forward
115. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
116. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
117. z__e defense *n.* a specific area, region, or section that is marked off or defined in some way
118. sales rep_____ion *n.* the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
119. fas_____ard 10 seconds *v.* to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording
120. ad__t as needed *v.* to make fit for or change to suit a new purpose or environment
121. a binocular te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
122. the worst case sc_____io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
123. int_____on among human beings *n.* the act of connecting with someone, mainly when working, playing, or spending time with them

ANSWERS: 113. guidance, 114. progression, 115. eventually, 116. detect, 117. zone, 118. representation, 119. fast-forward, 120. adapt, 121. telescope, 122. scenario, 123. interaction

124. de__h camera *n.* the distance between the top and bottom of something; between the top surface and a distance below it
125. con_____te to society *v.* to give something, especially money or goods, to provide or achieve something together with other people
126. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.
127. fa_____e caused by overwork *n.* a feeling of tiredness or weariness, especially as a result of physical or mental exertion; the reduction in the strength or efficiency of a material or structure due to repeated use or stress
128. re_____nt equipment *adj.* unnecessarily repetitive or excessive; exceeding what is necessary or essential; characterized by unnecessary repetition or duplication of efforts
129. control re_____ly *adv.* at a distance; not directly or easily accessible
130. use one thing con_____sly *adv.* without being interrupted or paused; repeatedly
131. don't dis_____nt me *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
132. the fl_____el on the car's engine *n.* a large, heavy wheel with a smooth rim that is used to store rotational energy and to smooth out fluctuations in the speed of an engine or other machine
133. m_d culture *n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers

ANSWERS: 124. depth, 125. contribute, 126. emit, 127. fatigue, 128. redundant, 129. remotely, 130. continuously, 131. disappoint, 132. flywheel, 133. mod

134. ge____e of goodwill *n.* a movement of the hands, head, or face that express a particular meaning
135. ac_____ny the book *v.* to go somewhere or travel with someone or something
136. fl_____el energy *n.* a large, heavy wheel with a smooth rim that is used to store rotational energy and to smooth out fluctuations in the speed of an engine or other machine
137. elliptic ga____y *n.* an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity
138. ro____y tool *adj.* relating to, revolving around, or characterized by rotation or a revolving motion
139. cutting-edge inn_____on *n.* the creation of a new device or process resulting from study and experimentation
140. fa____c of creation *n.* cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.
141. co_____t car *n.* an idea or principle associated with something abstract
142. con_____te a large sum of money to the fund *v.* to give something, especially money or goods, to provide or achieve something together with other people
143. a house with m_d cons *n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers

ANSWERS: 134. gesture, 135. accompany, 136. flywheel, 137. galaxy, 138. rotary, 139. innovation, 140. fabric, 141. concept, 142. contribute, 143. mod

144. basin-shaped va___y *n.* a long depression on the surface of the land, which typically contains a river
145. op_____ze a process *v.* to make the best or most effective use of something
146. lon_____ge radar *adj.* relating to or extending over a long distance, period of time, or range of possibilities
147. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
148. lon_____ge weather forecast *adj.* relating to or extending over a long distance, period of time, or range of possibilities
149. his conclusion was ob_____s *adj.* easy to see, discover or understand
150. pro_____on of disease *n.* the act or process of changing to the next stage or phase or moving forward
151. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
152. ped_____an safety *n.* a person who is in the street, especially in an area where vehicles go
153. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
154. the de__h of the water *n.* the distance between the top and bottom of something; between the top surface and a distance below it
155. vi_____e stars *adj.* capable of being seen; or open to easy view

ANSWERS: 144. valley, 145. optimize, 146. long-range, 147. environment, 148. long-range, 149. obvious, 150. progression, 151. opportune, 152. pedestrian, 153. emit, 154. depth, 155. visible

156. look through a te_____pe *n.* a device like a tube in shape containing lenses used to magnify and observe distant objects
157. ur__n property owners *adj.* relating to or located in a town or city
158. em_____ng country *adj.* starting to exist, mature, or become well-known
159. billions of lig_____ars *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles
160. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
161. trading of vi_____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
162. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
163. as___t his goal *v.* to help someone in doing anything
164. criminal pr_____ds *n.* the money or profit earned from a particular activity or venture; the total amount collected from a sale or fundraiser
165. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
166. lig_____ar distance *n.* a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

ANSWERS: 156. telescope, 157. urban, 158. emerging, 159. light-year, 160. brain, 161. virtual, 162. brain, 163. assist, 164. proceeds, 165. algorithm, 166. light-year

167. access to public tr_____rt *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
168. in_____ed radiation *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
169. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
170. traditional me_____al *adj.* of or relating to the treatment or cure of disease
171. legal fr_____rk *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text
172. al___e to his low origin *v.* to suggest or make reference to something indirectly
173. learn new co_____ts *n.* an idea or principle associated with something abstract
174. create a br__d logo *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
175. the fr_____rk of a house *n.* the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text

ANSWERS: 167. transport, 168. infrared, 169. construct, 170. medicinal, 171. framework, 172. allude, 173. concept, 174. brand, 175. framework

176. global av_____on industry *n.* the activity or process of designing, building, flying, and maintaining aircraft
177. 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
178. fu__d glass *adj.* joined together or combined into one; blended or integrated in a way that creates a new entity
179. geographical bo_____ry *n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
180. copyrighted so_____re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
181. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
182. im_____e the test score *v.* to make or become better
183. guarantee re_____le delivery *adj.* worthy of being relied on; trustworthy
184. time z__e *n.* a specific area, region, or section that is marked off or defined in some way
185. full-co_____ge insurance *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

ANSWERS: 176. aviation, 177. process, 178. fused, 179. boundary, 180. software, 181. experiment, 182. improve, 183. reliable, 184. zone, 185. coverage

186. the br__d of the new car *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
187. 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
188. re__t at a high temperature *v.* to take action in response to something
189. hand ge____e *n.* a movement of the hands, head, or face that express a particular meaning
190. re____le access *adj.* worthy of being relied on; trustworthy
191. a prodigious vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
192. pe____ve light *v.* to become aware or conscious of something through the senses
193. development of aut____us vehicles *adj.* capable of governing or controlling its affairs
194. re____e a dispute *v.* to find a suitable answer to the problems or difficulty
195. cen____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
196. use of dietary sup____nts *n.* something that is added to something else to make it better or complete it
197. electron mic____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye

ANSWERS: 186. brand, 187. surpass, 188. react, 189. gesture, 190. reliable, 191. vision, 192. perceive, 193. autonomous, 194. resolve, 195. centimeter, 196. supplement, 197. microscope

198. dis_____nt the audience *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
199. ast_____ics research *n.* the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe
200. em_____ng technologies *adj.* starting to exist, mature, or become well-known
201. civil av_____on *n.* the activity or process of designing, building, flying, and maintaining aircraft
202. 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
203. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
204. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
205. su_____s imagination *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
206. contractual co_____ge *n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides

ANSWERS: 198. disappoint, 199. astrophysics, 200. emerging, 201. aviation, 202. stick, 203. engineer, 204. eventually, 205. surpass, 206. coverage

207. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
208. 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
209. inn_____on leader *n.* the creation of a new device or process resulting from study and experimentation
210. im_____e a process *v.* to make or become better
211. ex_____d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
212. the c__e of an apple *n.* the most essential or fundamental part of something
213. si_____te climate change *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
214. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
215. a single c__p *n.* a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved

ANSWERS: 207. opportune, 208. process, 209. innovation, 210. improve, 211. exposed, 212. core, 213. simulate, 214. algorithm, 215. cusp

216. environmental po_____on *n.* the introduction of harmful substances or waste into the natural environment that causes adverse change
217. telescopic vi____n *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
218. gr_____ed flask *adj.* having received a degree from a school, college, or university; marked with or divided into levels or degrees
219. in_____et a graph *v.* to explain or assign the meaning of information, actions, etc.
220. con_____ce as a teacher *n.* the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something
221. op_____ze control for cooling *v.* to make the best or most effective use of something
222. an elevator op_____or *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
223. a ma__c spell *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
224. re__t against his way of thinking *v.* to take action in response to something
225. to_____te ambiguity *v.* to allow something to exist or happen, even if it is disliked or opposed
226. an ex_____d rock *adj.* having no protection or shield from something, such as bad weather, attack, or criticism

ANSWERS: 216. pollution, 217. vision, 218. graduated, 219. interpret, 220. confidence, 221. optimize, 222. operator, 223. magic, 224. react, 225. tolerate, 226. exposed

227. fa_____e breaking *n.* a feeling of tiredness or weariness, especially as a result of physical or mental exertion; the reduction in the strength or efficiency of a material or structure due to repeated use or stress
228. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
229. sk_____on hand *n.* the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant
230. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
231. attract br__d attention *adj.* very wide; general
232. tec_____cal policy *adj.* based on scientific and industrial progress
233. an in_____ed lamp *adj.* relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
234. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
235. an al_____et of manual signs *n.* a character set that includes letters and is used to write a language
236. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter

ANSWERS: 227. fatigue, 228. generation, 229. skeleton, 230. humming, 231. broad, 232. technological, 233. infrared, 234. environment, 235. alphabet, 236. centimeter

237. pr____ds of a sale *n.* the money or profit earned from a particular activity or venture; the total amount collected from a sale or fundraiser
238. cast a tra_____ion spell *n.* a complete change in form, nature, or appearance of someone or something
239. re_____e the computer error *v.* to find a suitable answer to the problems or difficulty
240. fr__k and open discussion *adj.* honest and sincere; open and candid in expression
241. l__p of faith *v.* to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
242. ra__r scanning *n.* a technology that employs radio waves to locate items that cannot be seen
243. ro_____xi service *n.* a type of autonomous vehicle that operates as a taxi service, transporting passengers without the need for a driver
244. wa_____ul practices *adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense
245. ur__n planning *adj.* relating to or located in a town or city
246. bo__ded with delight *v.* to move forward by leaps and bounds; to form the boundary of something

ANSWERS: 237. proceeds, 238. transformation, 239. resolve, 240. frank, 241. leap, 242. radar, 243. robotaxi, 244. wasteful, 245. urban, 246. bound

Session 3: Fill in the Blanks

1. Each department has done its product costing _____.
adv. separately or apart from others
2. The athlete was able to _____ over the hurdle with ease.
v. to jump or spring into the air, often with the feet leaving the ground or a surface below; to move quickly or suddenly, often forward or upward
3. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose
4. The room was only one _____ wider than the piano, making it a tight fit.
n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
5. He had to _____ two hours each way to get to work.
v. to regularly travel a particular journey, especially between one's home and place of work; (noun) a regular journey of some distance to and from your place of work
6. I was so _____ by my phone that I nearly walked into a lamppost.
adj. having one's attention diverted or divided; being unable to concentrate because of being preoccupied or worried
7. The heavy snow has been _____ since last morning.
adj. occurring or existing without a pause or interruption

ANSWERS: 1. individually, 2. leap, 3. opportune, 4. centimeter, 5. commute, 6. distracted, 7. continuous

8. The _____ wires in the electrical circuit caused a power outage.
adj. joined together or combined into one; blended or integrated in a way that creates a new entity
9. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
10. The company can _____ access its employees' computers for troubleshooting purposes.
adv. at a distance; not directly or easily accessible
11. The _____ of the machine must follow strict safety protocols.
n. a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
12. My home is easily _____ from the shore.
adj. capable of being seen; or open to easy view
13. Understanding unitary _____ of a normal matrix require considerable mathematical sophistication.
n. a complete change in form, nature, or appearance of someone or something
14. The mentor provided _____ to the young entrepreneur, helping her navigate the business world.
n. advice or instructions given to help direct someone's behavior or decision-making
15. Skill and _____ are an unconquered army.
n. the feeling or attitude that one can trust or rely on the abilities or good qualities of someone or something

ANSWERS: 8. fused, 9. complicated, 10. remotely, 11. operator, 12. visible, 13. transformations, 14. guidance, 15. confidence

16. The _____ engine is known for its smooth and efficient operation.
adj. relating to, revolving around, or characterized by rotation or a revolving motion
17. 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
18. A person who has been declared incompetent should have legal _____.
n. the act of speaking, acting, or being present on behalf of someone officially; a statement of facts and reasons made in appealing or protesting
19. The _____ expert analyzed the fluid around the aircraft.
n. the activity or process of designing, building, flying, and maintaining aircraft
20. The robot can accurately _____ construction material.
v. to specify or determine the exact position of someone or something
21. Many people in this city use the _____ railway for transportation.
n. a shape like a curve or a circle made by something long and thin, such as a piece of string, that bends round and crosses itself
22. _____ systems cannot spot the submarine.
n. a technology that employs radio waves to locate items that cannot be seen
23. Different people might _____ this news differently.
v. to explain or assign the meaning of information, actions, etc.

ANSWERS: 16. rotary, 17. exposed, 18. representation, 19. aviation, 20. locate, 21. loop, 22. Radar, 23. interpret

24. The investigation _____ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
25. He wandered the _____ between life and death by gunfire.
- n.* a real or imaginary line that marks the limit or extent of something and separates it from other things or places
26. _____ technologies have dramatically improved productivity in various industries.
- adj.* starting to exist, mature, or become well-known
27. He strove to memorize the Hebrew _____.
- n.* a character set that includes letters and is used to write a language
28. For this project to be successful, we must control _____ strictly.
- n.* the money, time, or effort incurred or required for something
29. The _____ is endangering the local plants and animals.
- n.* the introduction of harmful substances or waste into the natural environment that causes adverse change
30. The ____ for the video game added new features and improved gameplay.
- n.* a modification or alteration, typically one made to improve something or increase its functionality; a British teenager or young adult in the 1960s, noted for their clothes consciousness and opposition to the rockers
31. The _____ of the bees filled the air as she walked through the garden.
- adj.* producing a continuous, low, vibrating sound like that of the bee

ANSWERS: 24. involves, 25. boundary, 26. Emerging, 27. alphabet, 28. expenses, 29. pollution, 30. mod, 31. humming

32. There are _____ differences between the two wine-producing regions.

adj. easy to see, discover or understand

33. This automatic door could no longer be opened due to a _____ failure.

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

34. The project was on the _____ of success and needed a little more funding.

n. a pointed end, especially the pointed end of a crescent moon or the part of a curve that is most curved

35. The way he manages his employees is extremely _____.

adj. allowing or demanding no deviation from a standard; extremely careful, thorough, or accurate

36. The younger _____ has different values and beliefs than the older one.

n. all the people born and living at about the same time, regarded collectively; the production of heat or electricity

37. The _____ bus will take you to the airport in 15 minutes.

n. a vehicle or boat that regularly moves between two places; bobbin that passes the weft thread between the warp threads

38. The _____ from the charity auction will go towards building a school in a developing country.

n. the money or profit earned from a particular activity or venture; the total amount collected from a sale or fundraiser

39. He accumulated wealth across a _____ spectrum of assets.

adj. very wide; general

ANSWERS: 32. obvious, 33. sensor, 34. cusp, 35. rigorous, 36. generation, 37. shuttle, 38. proceeds, 39. broad

40. Five of the six provinces will become _____ regions under the new federal system of government.

adj. capable of governing or controlling its affairs

41. Certain _____ may promote tumor growth.

n. something that is added to something else to make it better or complete it

42. The company has made great strides in its _____ toward sustainability.

n. the act or process of changing to the next stage or phase or moving forward

43. The report contained _____ information that could have been eliminated.

adj. unnecessarily repetitive or excessive; exceeding what is necessary or essential; characterized by unnecessary repetition or duplication of efforts

44. Competition between countries resulted in fast technological _____.

n. the development, improvement, or progress of something

45. He devised a new analytical _____ to capture the phenomenon.

n. the structural components of a building or object that support its weight and give it form; the underlying structure of a system, concept, or text

46. 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

47. He was studying _____ in an attempt to understand the origins of the universe.

n. the branch of physics concerned with the study of the properties and behavior of celestial objects and the physical processes that govern the behavior and evolution of the universe

ANSWERS: 40. autonomous, 41. supplements, 42. progression, 43. redundant, 44. advancement, 45. framework, 46. process, 47. astrophysics

48. She was a _____ student of a prestigious university.

adj. having received a degree from a school, college, or university; marked with or divided into levels or degrees

49. How did he _____ to your idea?

v. to take action in response to something

50. These synthetic _____ are used in military vests because of their excellent abrasion resistance.

n. cloth or other material produced by weaving wool, cotton, silk, etc., used for making clothes, covering furniture, etc.

51. One such rapidly growing _____ is quantum cryptography.

n. an idea or principle associated with something abstract

52. 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

53. Canada _____ on the United States.

v. to move forward by leaps and bounds; to form the boundary of something

54. The corporation _____ dominated the entire tobacco business.

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

55. Please _____ her with the furniture relocation.

v. to help someone in doing anything

ANSWERS: 48. graduated, 49. react, 50. fabrics, 51. concept, 52. stick, 53. bounds, 54. eventually, 55. assist

56. I advised him to _____ to his new surroundings.
v. to make fit for or change to suit a new purpose or environment
57. The _____ of the two groups is good for brainstorming.
n. the act of connecting with someone, mainly when working, playing, or spending time with them
58. The military uses _____ missiles to hit targets from far away.
adj. relating to or extending over a long distance, period of time, or range of possibilities
59. The _____ of the dancers on stage was graceful and elegant.
n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
60. He _____ to the problem but did not mention it directly.
v. to suggest or make reference to something indirectly
61. This facility has the largest astronomical _____ in the country.
n. a device like a tube in shape containing lenses used to magnify and observe distant objects
62. The metal showed signs of _____ after being subjected to repeated stress.
n. a feeling of tiredness or weariness, especially as a result of physical or mental exertion; the reduction in the strength or efficiency of a material or structure due to repeated use or stress
63. _____ thrive on the surface of the human skin.
n. a tiny living thing that can only be seen with a microscope and that may cause disease

ANSWERS: 56. adapt, 57. interaction, 58. long-range, 59. movement, 60. alluded, 61. telescope, 62. fatigue, 63. Microbes

64. These gas nebulas are merely newborn galactic _____.
- n.* the most essential or fundamental part of something
65. The pond's _____ was around five feet.
- n.* the distance between the top and bottom of something; between the top surface and a distance below it
66. He had painted the wood to _____ stone.
- v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
67. I used an optical _____ to observe the small organisms in the water sample.
- n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
68. She made a facial _____ to express disagreement.
- n.* a movement of the hands, head, or face that express a particular meaning
69. The president prepared several possible _____ for an enemy attack.
- n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
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. He was known to be very _____ and would often work late into the night.
- adj.* hardworking, diligent, and persistent in effort

ANSWERS: 64. cores, 65. depth, 66. simulate, 67. microscope, 68. gesture, 69. scenarios, 70. medicinal, 71. industrious

72. Driving is difficult for me because of my poor _____.
- n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
73. This company _____ its battery problem completely.
- v.* to find a suitable answer to the problems or difficulty
74. There's a new _____ of hero in the movies now.
- n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
75. The company specializes in both hardware and _____.
- n.* a set of computer programs and associated documentation and data for doing particular computational jobs
76. Full involvement means _____ and prompt responses.
- adj.* honest and sincere; open and candid in expression
77. We want to _____ ties between our two countries.
- v.* to make or become better
78. The scandal received widespread media _____.
- n.* the reporting or news of an important event, sports, subject, etc.; the amount, range, area, or quality of something that something provides
79. My father's death _____ my life completely.
- v.* to change in outward structure or looks;

ANSWERS: 72. vision, 73. resolves, 74. brand, 75. software, 76. frank, 77. improve, 78. coverage, 79. transformed

80. Buying new clothes every week is a _____ use of money and resources.
adj. characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense
81. This ad campaign is aimed _____ at young women.
adv. only associated with or meant for one thing
82. The _____ camera revealed a hidden image on the surface.
adj. relating to or denoting electromagnetic radiation with a wavelength just longer than that of red light but shorter than that of microwave radiation, used for sensing heat and for remote control
83. The exercise bike has a large _____ that provides resistance and simulates outdoor cycling.
n. a large, heavy wheel with a smooth rim that is used to store rotational energy and to smooth out fluctuations in the speed of an engine or other machine
84. Only a small number of _____ utilities offer sanitation services.
adj. relating to or located in a town or city
85. During the unloading, the container box _____ a clicking sound.
v. to give off or send out something such as light, heat, sound, gas, etc.
86. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
87. 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

ANSWERS: 80. wasteful, 81. specifically, 82. infrared, 83. flywheel, 84. urban, 85. emits, 86. engineer, 87. innovation

88. We decided to take a detour to avoid the construction _____ on the main road.
- n.* the movement of vehicles, people, or goods along a route or through a transport system; the amount of such movement in a particular place or at a particular time
89. He _____ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
90. He performed _____ tricks with sophisticated moves.
- n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
91. We can evaluate the performance of an _____ in terms of computation time.
- n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
92. He is a man admired for the depth of his _____.
- n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
93. His _____ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
94. Enhanced rail _____ is crucial for our business.
- n.* a system for moving people or products from one location to another using automobiles, roads, and so on

ANSWERS: 88. traffic, 89. constructs, 90. magic, 91. algorithm, 92. perception, 93. experiments, 94. transportation

95. The accident made his vision _____.
- v.* to damage something or make it weaker or worse
96. I like to _____ through commercials when watching TV shows.
- v.* to advance or move forward in time or progress, particularly in a rapid or accelerated manner; to increase the playback speed of a recording
97. The _____ had received a mild snowfall the previous week.
- n.* a long depression on the surface of the land, which typically contains a river
98. Australia is widely _____ as having low levels of corruption.
- v.* to become aware or conscious of something through the senses
99. Trains are _____ inexpensive, and ideal for long-distance travel.
- adj.* worthy of being relied on; trustworthy
100. Scientists studied the ancient _____ to learn more about the creature's anatomy.
- n.* the structure of bones in a human or animal body, or a framework of bones or other material that supports a plant
101. A _____ is an uncommon sight in this area.
- n.* a person who is in the street, especially in an area where vehicles go
102. He was reluctant to leave his comfort _____ and try something new.
- n.* a specific area, region, or section that is marked off or defined in some way
103. The essence of economics is to _____ the allocation of limited resources.
- v.* to make the best or most effective use of something

ANSWERS: 95. impaired, 96. fast-forward, 97. valley, 98. perceived, 99. reliable, 100. skeleton, 101. pedestrian, 102. zone, 103. optimize

104. The detective followed a _____ of clues which ultimately led to the suspect's arrest.

- n.* a fine cord of natural or synthetic fibers or filaments, such as cotton or nylon, used in sewing, knitting, or weaving; a series of connected messages or comments on a social media platform or online forum, often related to a particular topic; a sequence or line of events, ideas, or actions that are connected or related; (verb) to pass a thread through a needle or other small opening, in preparation for sewing or stitching

105. 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

106. Please let me know if you want to _____ me to my hometown.

- v.* to go somewhere or travel with someone or something

107. 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

108. The security camera has _____ four intruders.

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

109. I can't _____ spicy food, and it always gives me heartburn

- v.* to allow something to exist or happen, even if it is disliked or opposed

110. The cost of transportation could be significantly reduced with the adoption of _____.

- n.* a type of autonomous vehicle that operates as a taxi service, transporting passengers without the need for a driver

ANSWERS: 104. thread, 105. brain, 106. accompany, 107. digital, 108. detected, 109. tolerate, 110. robotaxis

111. 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

112. 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

113. The Milky Way _____ has numerous water-bearing planets.

n. an independent group of stars, interstellar gas, dark matter, etc., in the universe, bound together by gravity

114. She worked very hard not to _____ her boss's expectations.

v. to fail to meet someone or their hopes or expectations; to make someone feel sad

115. Proxima Centauri is the closest star to Earth, located about 4.24 _____ away.

n. a unit of distance used in astronomy to represent the distance that light travels in a year, which is equal to about 9.46 trillion kilometers or 5.88 trillion miles

116. 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

117. In _____ private corporations provide healthcare services.

n. the act or process of adding something to something else; the process of adding numbers

ANSWERS: 111. virtual, 112. environment, 113. galaxy, 114. disappoint, 115. light-years, 116. AI, 117. addition,

118. 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

119. _____ 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

120. The country's domestic coal consumption has been _____ declining for decades.

- adv.* without being interrupted or paused; repeatedly

121. _____ advances have disrupted many industries.

- adj.* based on scientific and industrial progress

122. 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

123. Government workers cannot _____ to political campaigns.

- v.* to give something, especially money or goods, to provide or achieve something together with other people

ANSWERS: 118. hacking, 119. Silicon, 120. continuously, 121. Technological, 122. surpassed, 123. contribute