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Vocabulary Builder Reference from...

Erica Frenkel: The universal anesthesia machine |

TED Talk

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All Words

IMPORTANT

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Session 1: Word List

medical

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

synonym: health, disease, treatment

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

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

gap

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

synonym: opening, lacuna, spread

(1) the **gap** between ideal and reality, (2) distance **gap**

Many people are working together to close the gender **gap**.

surgery

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

synonym: operation, (medical) procedure

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

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

bottleneck

n. a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry

synonym: blockage, obstacle, barrier

(1) performance **bottleneck**, (2) **bottleneck** in production
Memory bandwidth is a significant **bottleneck** in this computational simulation.

anesthesia

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

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

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

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**.

operate

v. to work in a particular way; to supervise something

synonym: work, use, employ

(1) **operate** 24 hours a day, (2) manually **operate** a machine

This machine is too difficult to **operate** for me.

develop

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

synonym: evolve, progress, advance

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

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

background

n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym : ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**

The company's hiring criteria emphasize personality, not a person's **background**.

sophisticated

adj. having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

synonym : refined, cultured, worldly

(1) **sophisticated** look, (2) a **sophisticated** lifestyle

Marketing strategies are growing more **sophisticated**.

extreme

adj. very great in amount or degree

synonym : farthestmost, outermost, fierce

(1) **extreme** sports, (2) **extreme** weather events

Solar gravity creates **extreme** pressures and temperatures.

anesthesiologist

n. a medical doctor who specializes in administering anesthesia to help control pain and monitor the vital signs of patients during procedures and surgeries

synonym : anesthetist, pain specialist, sedationist

(1) specialized **anesthesiologist**, (2) clinical

anesthesiologist

The experienced **anesthesiologist** monitored the patient's vital signs throughout the procedure.

complexity

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

synonym : intricacy, sophistication, elaboration

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

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

monitor

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

synonym : proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully
They used a special receiver to **monitor** police radio channels.

patient

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

synonym : client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss
The doctor carefully examined the **patient's** medical history.

anesthetize

v. to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation

synonym : numb, sedate, drug

(1) **anesthetize** a patient, (2) **anesthetize** a wound
The dentist will **anesthetize** your mouth before removing your wisdom teeth.

delicate

adj. very fine, subtle, and pleasing; easily broken or damaged or destroyed

synonym : dainty, exquisite, fragile

(1) **delicate** attention, (2) a **delicate** flavor
The fresh green trees cast a **delicate** web of shadows over the lawn.

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.

biomedical

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

synonym : medical, clinical, health-related

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

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

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.

upward

adv. toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place

synonym : skyward, uphill

(1) look **upward**, (2) demonstrate an **upward** trend

The company adjusted the revenue **upward**.

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.

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.

illustrate

v. to provide pictures, photographs, diagrams, etc. in a book or something for explanation

synonym : demonstrate, explain, exemplify

(1) **illustrate** a key point, (2) **illustrate** a story

The company's financial records **illustrate** how successful it has been.

infrastructure

n. the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

synonym : foundation, framework

(1) IT **infrastructure**, (2) **infrastructure** cost

Aging societies tend to require huge costs for **infrastructure** maintenance.

supple

adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

synonym : flexible, pliable, bendable

(1) **supple** muscles, (2) **supple** leather

The ballerina's **supple** movements left the audience mesmerized.

interrupt

v. to say or do something that causes someone to stop in their speech or action

synonym : disturb, hinder, break in

(1) **interrupt** a call, (2) abruptly **interrupt**

Her sleep was **interrupted** by recurring pain.

electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym : wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

compress

v. to press or squeeze together to make something take up less space

synonym : condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

oxygen

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**

The passenger grabbed for the **oxygen** mask.

critic

n. someone who expresses opinions about the quality of books, music, etc.

synonym: pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

function

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

synonym: purpose, mapping, job

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

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

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

rural

adj. of or relating to the countryside

synonym: agrarian, country, rustic

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

Many **rural** areas are still impoverished.

qualified

adj. officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job

synonym : eligible, skillful, accomplished

(1) a **qualified** doctor, (2) **qualified** in medicine

We seek a person **qualified** for the post.

proverb

n. a short saying that expresses a truth or gives advice based on practical experience

synonym : adage, saying, maxim

(1) a hackneyed **proverb**, (2) ancient **proverb**

The famous **proverb** "actions speak louder than words" reminds us to focus on deeds instead of words.

junk

n. discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition

synonym : trash, debris, waste

(1) **junk** mail, (2) hunk of **junk**

I need to clear out some of the **junk** in my garage.

mention

v. to speak or write about something or someone briefly

synonym : reference, allude, cite

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

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

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym : depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

quarter

n. one of four equal parts; a fourth part or portion
synonym : fourth, one-fourth

(1) a **quarter** mile, (2) end of the first **quarter**

The unemployment rate in the first **quarter** was 2.3 percentage points higher than in the previous.

grid

n. a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

synonym : gridiron, battery grid, power system

(1) a **grid** design, (2) a wire **grid**

Grid pattern roads often appear in urban areas.

frequent

adj. happening constantly

synonym : periodic, recurring, routine

(1) **frequent** absence, (2) **frequent** use

His heartaches are less **frequent** now.

generator

n. a machine that produces electricity

synonym : dynamo, alternator, creator

(1) random number **generator**, (2) major revenue

generator

Most data centers have emergency **generators** on standby at all times.

fuel

n. a substance that is typically burned to generate heat or energy

synonym : energy, power, gas

(1) biomass **fuel**, (2) smokeless **fuel**

The **fuel** scarcity most severely impacted the manufacturing sector

estimate

v. to guess or calculate the cost, size, value, etc. of something

synonym : calculate, gauge, evaluate

(1) **estimate** a fair value, (2) **estimate** this chicken to weigh

three pounds

We **estimated** the season's total trade deficit at \$50 billion.

similarly

adv. in almost the same way

synonym: also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

luxury

n. a state of great comfort or sophistication, mainly provided by expensive and beautiful things

synonym: extravagance, indulgence, opulence

(1) get into the **luxury** car market, (2) **luxury** hotel

His anti- **luxury** practices were quite strict.

crazy

adj. stupid or not sensible; very angry

synonym: insane, absurd, bizarre

(1) **crazy** about cars and racing, (2) a **crazy** scheme

The rain and thunder are **crazy** today.

Don

n. a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge

(1) the **don** of the university, (2) **Don** Giovanni

He could never go against what **Don** Carlos said.

inappropriate

adj. not suitable or proper for a particular occasion, purpose, or person

synonym: improper, unsuitable, unacceptable

(1) **inappropriate** behavior, (2) **inappropriate** language

It was highly **inappropriate** to make jokes during a serious business meeting.

observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym: watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

obstetrics

n. the branch of medicine that deals with the care of women during pregnancy, childbirth, and the postpartum period, including the management of complications and the health of the mother and baby

synonym : midwifery, childbirth, tocology

(1) **obstetrics** ward, (2) **obstetrics** clinic

The hospital's **obstetrics** department is responsible for caring for pregnant women and delivering babies.

emergency

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

synonym : crisis, trouble, difficulty

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

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

cesarean

adj. (also known as "C-section") relating to the delivery of a baby through a surgical incision made in the mother's abdomen and uterus rather than through vaginal birth

synonym : C-section, surgical birth

(1) **cesarean** delivery, (2) emergency **cesarean**

The **cesarean** recovery period can be longer and more challenging than a vaginal birth recovery.

auspicious

adj. a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity

synonym : propitious, favorable, promising

(1) **auspicious** timing, (2) **auspicious** sign

The **auspicious** start to the new year brought hope for better times ahead.

surgeon

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

synonym : sawbones, doctor

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

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

scrub

v. to clean something thoroughly, typically with a brush and soap or detergent

synonym : clean, wash, sanitize

(1) **scrub** off graffiti, (2) **scrub** dirt from potatoes

She decided to **scrub** the kitchen floor to remove all the dirt and grime.

nurse

n. a healthcare professional who is trained to provide care for the sick or injured; (verb) to try to cure by special care or treatment of an illness or injury

synonym : healthcare worker, caregiver, medic

(1) **nurse** practitioner, (2) a volunteer **nurse**

The night shift **nurse** checked my vital signs before administering the medication.

headlight

n. a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead

synonym : headlamp, beam, lamp

(1) **headlight** adjustment, (2) **headlight** switch

My car's **headlight** must be replaced before I drive again at night.

literally

adv. in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

synonym : actually, truly, verily

(1) translate **literally**, (2) bite his tongue **literally**

He **literally** jumped out of his chair when he heard the news.

asleep

adj. in a state of sleep

synonym : sleeping, fallen, at rest

(1) **asleep** at the wheel, (2) dead **asleep**
He lay down and fell **asleep** immediately.

routine

n. a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program

synonym: habit, custom, procedure

(1) **routine** business, (2) a built-in diagnostic **routine**
She studies gardening on a **routine** basis.

probable

adj. likely to happen or likely to be true

synonym: likely, possible, potential

(1) **probable** outcome, (2) **probable** cause of a fire
It seems **probable** that he has forgotten our scheduled meeting.

tragedy

n. an event or situation causing great loss, misfortune, or destruction; a play or literature that deals with a severe and sad event and often ends with the death of the main character

synonym: disaster, adversity, calamity

(1) a **tragedy** during work, (2) the aftermath of this **tragedy**
Macbeth is a famous **tragedy** by Shakespeare.

frustrate

v. to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something

synonym: hinder, thwart, dishearten

(1) **frustrate** the advancement, (2) **frustrate** other team members

The coach explained a strategy to **frustrate** the opponent's schemes to the players.

singular

n. being only one of its kind; unique

synonym: unique, sole, individual

(1) **singular** purpose, (2) **singular** goal

The **singular** beauty of the night sky never ceases to amaze him.

attempt

n. an act or effort of trying to do something, especially something difficult

synonym: endeavor, effort, try

(1) the **attempt** to rescue the hostages, (2) a reckless **attempt**

The third **attempt** was far more successful.

colleague

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

synonym: coworker, associate, fellow

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

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

chief

adj. most important or primary; (noun) a person who is in charge

synonym: essential, primary, leading

(1) **chief** accountant, (2) **chief** events of the year

Mining is a **chief** source of income for the country.

equip

v. to provide a person or a place with the things that are needed for a particular purpose or activity

synonym: prepare, furnish, provide

(1) **equip** an army, (2) **equip** our children with some special skills

The construction company **equipped** the building with an earthquake-resistant device.

unreliable

adj. not able to be trusted or depended on

synonym: inconsistent, erratic, undependable

(1) prove **unreliable**, (2) **unreliable** source of information

By incorrect assumption, statistics can be notoriously **unreliable**.

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.

umpteen

adj. very many; relating to a large or indefinite number of something

synonym : countless, numerous, many

(1) **umpteen** hours, (2) **umpteen** attempts

After moving around the world **umpteen** times, I finally settled in my hometown.

unspeakable

adj. too terrible, shocking, or distressing to speak about

synonym : unspeakably horrible, indescribable, unutterable

(1) **unspeakable** crime, (2) **unspeakable** pain

The survivors of the plane crash could only describe the **unspeakable** horror of the experience.

tinker

v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

synonym : fiddle, play, fix

(1) **tinker** with the bill, (2) **tinker** with the settings

He spent the afternoon **tinkering** with his car engine.

prototype

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

synonym : mock-up, precursor, model

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

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

universal

adj. existing or affecting everywhere or everyone

synonym : common, broad, worldwide

(1) **universal** life, (2) principles of **universal** design

The picture earned near- **universal** acclaim from critics.

circumstance

n. the specific conditions or events that surround a particular situation or occurrence

synonym: condition, context, environment

(1) **circumstance** of birth, (2) **circumstance** of injury

She explained the **circumstances** surrounding the accident.

pediatrics

n. the branch of medicine that deals with the care and treatment of children

synonym: pedology, child health

(1) **pediatrics** department, (2) **pediatrics** clinic

I am studying **pediatrics** in medical school because I love working with children.

geriatrics

n. a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults

synonym: senescence, old age, elderly care

(1) **geriatrics** clinic, (2) **geriatrics** specialist

The **geriatrics** department focuses on the healthcare needs of elderly patients.

built-in

adj. included as an integral part of something

synonym: integrated, inherent, equipped

(1) **built-in** feature, (2) **built-in** battery

The new car had a **built-in** navigation system.

concentration

n. the ability to focus all your time and energy on one thing without thinking about anything else.

synonym: attention, engagement, assiduity

(1) **concentration** of armaments, (2) his research area of **concentration**

This exam requires excellent **concentration** to pass.

essentially

adv. relating to the essential features or concepts of anything

synonym: fundamentally, basically, virtually

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

Essentially, a society is an organism.

purity

n. the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature

synonym : sinlessness, innocence, cleanliness

(1) the degree of **purity**, (2) high **purity**

Higher **purity** requires additional equipment and energy.

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.

dilute

v. to make a substance less concentrated by adding a liquid or another substance to it

synonym : weaken, thin, reduce

(1) **dilute** acid with water, (2) **dilute** a great idea

She **diluted** the concentrated juice with water.

mixture

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

synonym : blend, amalgam, concoction

(1) **mixture** of emotions, (2) perfect **mixture**

The paint was a **mixture** of different pigments to achieve the desired color.

inhale

v. to breathe in air or a different substance, such as smoke

synonym : breathe in, take in, draw in

(1) **inhale** the smoke, (2) **inhale** the aroma

He **inhaled** deeply, trying to calm down.

percentage

n. the number, amount, or rate of something, which is usually the amount per hundred

synonym : rate, ratio, portion

(1) the **percentage** of the gold content, (2) a high

percentage

What is the **percentage** of the consumption tax in the United States?

glorious

adj. having or deserving great admiration, praise, and honor; having great beauty and splendor

synonym : exquisite, magnificent, majestic

(1) a **glorious** victory, (2) photo in **glorious** color

I choose a **glorious** death rather than a shameful life.

abundant

adj. present in great quantity

synonym : ample, plentiful, generative

(1) live an **abundant** life, (2) an **abundant** supply of water

The country has **abundant** oil and natural gas resources.

filter

n. any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light

synonym : strainer

(1) gas **filter**, (2) clogged **filter**

Ozone is a primary **filter** to protect Earth's surface from harmful UV rays.

anesthetic

n. a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain

synonym : sedative, anesthesia, painkiller

(1) **anesthetic** injection, (2) local **anesthetic**

The dentist administered an **anesthetic** to numb the patient's mouth before the procedure.

agent

n. a person who represents and negotiates on behalf of someone else, such as a literary agent or talent agent; (of chemistry and medicine) a substance that brings about a chemical or physical effect; (of computer science) a piece of software that performs a task autonomously

synonym : representative, delegate, envoy

(1) **agent** system, (2) antidiarrheal **agent**

The FBI **agent** went undercover to infiltrate the criminal organization.

lung

n. either of the two organs in the chest that people and some animals use for breathing

(1) **lung** capacity, (2) do **lung** transplantation

He has terminal **lung** cancer.

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.

forbid

v. to order somebody not to do something, especially officially; to keep something from happening or arising

synonym : prohibit, ban, outlaw

(1) **forbid** smoking in public areas, (2) **forbid** the use of chemical weapons

God **forbid** you should regret your marriage.

transition

n. the process or period of changing from one state or circumstance to another

synonym : change, growth, shift

(1) **transition** phase, (2) ensure a smooth **transition**

The nation's healthcare system is in **transition** at the moment.

automatically

adv. without needing a direct human control

synonym : mechanically, unconsciously, spontaneously

(1) record driving **automatically**, (2) **automatically** adjusted

Our subscription plan is **automatically** renewed.

drawing

n. the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material

synonym : sketch, depiction, illustration

(1) technical **drawing**, (2) **drawing** for design

She is talented at **drawing** and has won several awards for her artwork.

inlet

n. a small arm of the sea, a lake, or a river, usually leading inland

synonym : cove, bayou, estuary

(1) **inlet** valve, (2) **inlet** temperature

The boat sailed through the narrow **inlet** and into the harbor.

battery

n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them

synonym : electric cell, array, batch

(1) a dry **battery**, (2) **battery** charging

The engine did not start because the **battery** was flat.

provider

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

synonym : supplier

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

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

adjust

v. to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

synonym : adapt, alter, acclimate

(1) **adjust** a schedule, (2) **adjust** the rearview mirror

You have to **adjust** your content to the age of the audience.

paralyze

v. to cause a person or part of the body to become unable to move or feel

synonym: immobilize, disable, numb

(1) **paralyze** a city, (2) **paralyze** a person

The venom from the snake bite **paralyzed** his arm.

manual

adj. done by hand rather than by machine; (noun) a book of instructions, especially for operating a machine or learning a subject

synonym: by hand, (noun) handbook, (noun) tutorial

(1) car with **manual** transmissions, (2) look at the **manual**

This machine cuts metal by **manual** control.

bellows

n. a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely

synonym: blower, puffer, blaster

(1) **bellows** pump, (2) blow a **bellows**

The blacksmith's apprentice operated the **bellows** to maintain the forge's heat.

ventilate

v. to supply fresh air to a room, building, etc.; to remove stale air from it

synonym: air out, circulate, freshen

(1) **ventilate** my opinion, (2) **ventilate** air

It's important to **ventilate** the room to avoid the buildup of harmful gases.

straightforward

adj. easy to do or understand, or simple; free from ambiguity

synonym: honest, candid, forthright

(1) **straightforward** manner, (2) make a **straightforward** dash

The defendant gave a **straightforward** and accurate

description of the accident.

shudder

v. to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking

synonym: tremble, shake, quiver

(1) **shudder** at the thought, (2) **shudder** with fear

I couldn't help but **shudder** when I heard the scary noise from the dark alleyway.

specialized

adj. possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function

synonym: technical, expert, skilled

(1) **specialized** knowledge, (2) **specialized** equipment

The hospital has many **specialized** departments, including cardiology and oncology.

district

n. a part of a country or town, especially one with particular features

synonym: territory, dominion, zone

(1) school **districts**, (2) urban **districts**

Since 2001, the **district** has provided training programs for automotive technicians.

incredibly

adv. in a way that is very difficult to believe; exceedingly or extremely

synonym: enormously, exceptionally, extraordinarily

(1) **incredibly** cheerful character, (2) get **incredibly** insecure

Several cities are experiencing **incredibly** high unemployment rates.

rugged

adj. having a rough, uneven, or jagged surface or terrain; characterized by a sturdy, strong, or robust nature

synonym: rough, hardened, harsh

(1) **rugged** coastline, (2) **rugged** landscape

The hikers braved the **rugged** terrain to reach the summit of the mountain.

virtually

adv. almost completely

synonym : almost, basically, nearly

(1) **virtually** all countries, (2) **virtually** identical

Virtually all the parties signed the contract.

swap

v. to give something and receive something in trade

synonym : exchange, switch, trade

(1) **swap** seats, (2) **swap** columns with rows

Don't **swap** horses while crossing a stream.

replace

v. to take the place of something

synonym : substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone

Eventually, the new design will **replace** all older models.

hex

n. a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base

synonym : jinx, curse, hexadecimal

(1) **hex** sign, (2) a **hex** format

Some people believe that the **hex** placed on their house is causing strange and unexplained occurrences.

wrench

v. to pull or twist something suddenly or violently

synonym : twist, turn, bend

(1) **wrench** off the lock, (2) **wrench** my back

A deep sigh was **wrenched** from his chest.

screwdriver

n. a tool used for turning screws, typically consisting of a handle and a metal rod with a flattened tip that fits into the slot on the head of a screw; a popular cocktail made with vodka and orange juice

synonym : screw, driver, wrench

(1) open the can with a **screwdriver**, (2) electric **screwdriver**

I need a flathead **screwdriver** to tighten the loose screws on this cabinet.

affordable

adj. not expensive and able to pay

synonym: cheap, reasonable, inexpensive

(1) **affordable** housing, (2) **affordable** solution

The automaker has been providing **affordable** car financing options since last year.

conventional

adj. based on or following traditional rules, standards, customs, etc.

synonym: ancestral, customary, established

(1) a **conventional** style, (2) get a **conventional** loan

She is very **conventional** in her thoughts.

clinical

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

synonym: dispassionate, analytic, scientific

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

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

adverse

adj. unfavorable or harmful

synonym: hostile, detrimental, unfavorable

(1) **adverse** circumstances, (2) **adverse** reaction

The **adverse** weather conditions forced us to cancel the outdoor event.

thrill

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

synonym: exhilaration, delight, rush

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

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

scalable

adj. capable of being easily expanded or increased in size, number, or scale to meet changing demands

synonym : expandable, flexible, adjustable

(1) **scalable** solution, (2) dynamically **scalable**

The company's new software is highly **scalable**, allowing it to handle increasing number of users.

pervasive

adj. spreading or existing throughout every part of a thing or place

synonym : extensive, ubiquitous, prevalent

(1) **pervasive** language, (2) the **pervasive** odor of garlic

Suspicion and worry were **pervasive** in our minds.

device

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

synonym : gadget, instrument, tool

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

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

launch

v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

synonym : start, initiate, begin

(1) **launch** a spaceship into orbit, (2) **launch** a big attack

The company is set to **launch** its new product line next month.

partnership

n. the state of a cooperative relationship between people or groups, especially in business

synonym : alliance, participation, cooperation

(1) **partnership** across the Atlantic, (2) establish a **partnership**

The military **partnership** between the two countries created tension in the international community.

interface

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

synonym : junction, surface, UI

(1) **interface** between gas and liquid, (2) the user **interface**
Detergent weakens the surface tension at the **interface** of two liquids.

appropriate

adj. suitable or proper in the circumstances; fitting

synonym : fitting, suitable, proper

(1) **appropriate** behavior, (2) an **appropriate** time

It would be **appropriate** to dress nicely for the wedding.

enhance

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

synonym : improve, enrich, refine

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

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

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.

lab

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

synonym : workshop, laboratory, research chamber

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

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

recreate

v. to make something that existed previously happen or appear to exist again

synonym: renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

crisis

n. a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken

synonym: concern, problem, emergency

(1) financial **crisis**, (2) **crisis** management

The Chinese word for **crisis** comprises two characters, one for danger and the other for opportunity.

intention

n. something you want to do and are going to do

synonym: purpose, connotation, will

(1) **intention** behind his decision, (2) clear **intention**

Our CEO's **intentions** are always transparent and straightforward.

evaluate

v. to assess or estimate the quality, significance, quantity, or value of something

synonym: assess, estimate, consider

(1) **evaluate** the grant proposal, (2) **evaluate** a situation

The meeting aims to **evaluate** possible choices.

effectiveness

n. the fact or quality of producing the result that is wanted or intended

synonym: efficacy, usefulness, significance

(1) teaching **effectiveness**, (2) **effectiveness** against insomnia

This product is a durable material that combines cost-**effectiveness** and quality.

fascinating

adj. extremely interesting

synonym : alluring, intriguing, captivating

(1) **fascinating** story, (2) completely **fascinating** to me

The museum houses a **fascinating** collection of Celtic artifacts.

component

n. one of several parts that combines with others to form something bigger

synonym : element, part, factor

(1) key **component**, (2) spare **components** for cars

The researchers try to discover a common **component** in all types of successful organizations.

peripheral

adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential

synonym : outer, minor, secondary

(1) **peripheral** vision, (2) **peripheral** devices

The city's **peripheral** areas should be given more attention regarding infrastructure and resources.

gatekeeper

n. a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest

synonym : guardian, watchman, custodian

(1) **gatekeeper** role, (2) information **gatekeeper**

The company's **gatekeeper screened** all incoming phone calls and emails to ensure only important ones reached the boss.

outcome

n. the result or effect of an action, event, etc.

synonym : result, consequence, effect

(1) improved student **outcomes**, (2) a desirable **outcome**

They awaited news of the **outcome** of the election.

delivery

n. the act of taking or sending something to a destination; the bringing of a baby during childbirth

synonym: sending, transporting, bringing

(1) an easy **delivery**, (2) special **delivery**

The **delivery** truck arrived with the packages.

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.

Session 2: Spelling

1. a built-in diagnostic ro____e *n.* a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program
2. the user in____ce *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
3. in____pt a call *v.* to say or do something that causes someone to stop in their speech or action
4. co____t car *n.* an idea or principle associated with something abstract
5. me____n in a report *v.* to speak or write about something or someone briefly
6. un____al life *adj.* existing or affecting everywhere or everyone
7. biomass f__l *n.* a substance that is typically burned to generate heat or energy
8. aut____lly adjusted *adv.* without needing a direct human control
9. sh____r at the thought *v.* to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking
10. di____e acid with water *v.* to make a substance less concentrated by adding a liquid or another substance to it

ANSWERS: 1. routine, 2. interface, 3. interrupt, 4. concept, 5. mention, 6. universal, 7. fuel, 8. automatically, 9. shudder, 10. dilute

11. technical dr____g *n.* the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
12. the professor of su____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
13. per_____al devices *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential
14. nu__e practitioner *n.* a healthcare professional who is trained to provide care for the sick or injured; (verb) to try to cure by special care or treatment of an illness or injury
15. pa_____ze a city *v.* to cause a person or part of the body to become unable to move or feel
16. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
17. h_x sign *n.* a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base
18. unr_____le source of information *adj.* not able to be trusted or depended on

ANSWERS: 11. drawing, 12. surgery, 13. peripheral, 14. nurse, 15. paralyze, 16. develop, 17. hex, 18. unreliable

19. an ele_____al storm *adj.* relating to electricity
20. ev_____te the grant proposal *v.* to assess or estimate the quality, significance, quantity, or value of something
21. urban di_____cts *n.* a part of a country or town, especially one with particular features
22. 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
23. the pe_____ve odor of garlic *adj.* spreading or existing throughout every part of a thing or place
24. ill_____te a key point *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
25. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
26. in___e the aroma *v.* to breathe in air or a different substance, such as smoke
27. teaching eff_____ess *n.* the fact or quality of producing the result that is wanted or intended

ANSWERS: 19. electrical, 20. evaluate, 21. district, 22. process, 23. pervasive, 24. illustrate, 25. develop, 26. inhale, 27. effectiveness

28. fr_____te other team members *v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
29. principles of un_____al design *adj.* existing or affecting everywhere or everyone
30. ped_____cs department *n.* the branch of medicine that deals with the care and treatment of children
31. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
32. 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
33. ev_____te a situation *v.* to assess or estimate the quality, significance, quantity, or value of something
34. local ane_____ic *n.* a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain
35. the g_p between ideal and reality *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
36. in_____ce between gas and liquid *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

ANSWERS: 28. frustrate, 29. universal, 30. pediatrics, 31. engineer, 32. simulate, 33. evaluate, 34. anesthetic, 35. gap, 36. interface

37. immune fu____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
38. a reckless at____t *n.* an act or effort of trying to do something, especially something difficult
39. completely fas_____ng to me *adj.* extremely interesting
40. sop_____ted look *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
41. a high per____ge *n.* the number, amount, or rate of something, which is usually the amount per hundred
42. end of the first qu____r *n.* one of four equal parts; a fourth part or portion
43. 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
44. participate in cl____al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
45. el_____fy the audience *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

ANSWERS: 37. function, 38. attempt, 39. fascinating, 40. sophisticated, 41. percentage, 42. quarter, 43. sensor, 44. clinical, 45. electrify

46. a wire g__d *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
47. a gl____us victory *adj.* having or deserving great admiration, praise, and honor; having great beauty and splendor
48. incredible th___l *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
49. su___e leather *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
50. si____ar goal *n.* being only one of its kind; unique
51. the th___l of speed *n.* a feeling of extreme and sudden excitement and pleasure; to cause someone to feel sudden intense sensation or emotion
52. cr__y about cars and racing *adj.* stupid or not sensible; very angry
53. a cr__y scheme *adj.* stupid or not sensible; very angry
54. local ane____ia *n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
55. D_n Giovanni *n.* a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
56. aff____le housing *adj.* not expensive and able to pay

ANSWERS: 46. grid, 47. glorious, 48. thrill, 49. supple, 50. singular, 51. thrill, 52. crazy, 53. crazy, 54. anesthesia, 55. Don, 56. affordable

57. um_____n attempts *adj.* very many; relating to a large or indefinite number of something
58. ess_____ly correct *adv.* relating to the essential features or concepts of anything
59. pr_____le cause of a fire *adj.* likely to happen or likely to be true
60. major revenue ge_____or *n.* a machine that produces electricity
61. el_____fy a manufacturing process *v.* to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
62. aus_____us sign *adj.* a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity
63. es_____te a fair value *v.* to guess or calculate the cost, size, value, etc. of something
64. tracking de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
65. a volunteer nu__e *n.* a healthcare professional who is trained to provide care for the sick or injured; (verb) to try to cure by special care or treatment of an illness or injury
66. a hackneyed pr_____b *n.* a short saying that expresses a truth or gives advice based on practical experience

ANSWERS: 57. umpteen, 58. essentially, 59. probable, 60. generator, 61. electrify, 62. auspicious, 63. estimate, 64. device, 65. nurse, 66. proverb

67. cutting-edge bio_____al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
68. es_____te this chicken to weigh three pounds *v.* to guess or calculate the cost, size, value, etc. of something
69. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
70. pr_____le outcome *adj.* likely to happen or likely to be true
71. ob_____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
72. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
73. ro_____e business *n.* a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program
74. ensure a smooth tra_____on *n.* the process or period of changing from one state or circumstance to another
75. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
76. ger_____cs specialist *n.* a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults

ANSWERS: 67. biomedical, 68. estimate, 69. fuel, 70. probable, 71. observe, 72. biomedical, 73. routine, 74. transition, 75. complexity, 76. geriatrics

77. ane_____ze a patient
v. to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation
78. eve_____ly become obsolete
adv. finally, particularly after a long time or a lot of struggle, complications, and so on
79. fas_____ng story
adj. extremely interesting
80. re_____e one word with another
v. to take the place of something
81. establish a par_____ip
n. the state of a cooperative relationship between people or groups, especially in business
82. app_____te behavior
adj. suitable or proper in the circumstances; fitting
83. ina_____ate language
adj. not suitable or proper for a particular occasion, purpose, or person
84. ce_____an delivery
adj. (also known as "C-section") relating to the delivery of a baby through a surgical incision made in the mother's abdomen and uterus rather than through vaginal birth
85. spare co_____nts for cars
n. one of several parts that combines with others to form something bigger
86. si_____ly situated
adv. in almost the same way
87. former co_____ue
n. one of a group of a coworker, especially in a profession or a business
88. lack of ox_____n
n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

ANSWERS: 77. anesthetize, 78. eventually, 79. fascinating, 80. replace, 81. partnership, 82. appropriate, 83. inappropriate, 84. cesarean, 85. component, 86. similarly, 87. colleague, 88. oxygen

89. art cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
90. en_____e the flavor of the vanilla *v.* to increase or improve the quality, amount, or strength of someone or something
91. re_____te the feeling of the 1920s *v.* to make something that existed previously happen or appear to exist again
92. army su_____n *n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
93. a dry ba_____y *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
94. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
95. 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
96. the degree of pu_____y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
97. cl_____al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
98. the d_n of the university *n.* a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge

ANSWERS: 89. critic, 90. enhance, 91. recreate, 92. surgeon, 93. battery, 94. lab, 95. sensor, 96. purity, 97. clinical, 98. Don

99. financial cr___s *n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
100. ad___t a schedule *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.
101. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
102. ex_____e weather events *adj.* very great in amount or degree
103. la___h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
104. em_____cy action *n.* a sudden unforeseen crisis usually involving danger that requires immediate action
105. get a con_____nal loan *adj.* based on or following traditional rules, standards, customs, etc.
106. the at_____t to rescue the hostages *n.* an act or effort of trying to do something, especially something difficult
107. the pr_____er of the family *n.* a person or an organization that supplies somebody with something needed or wanted
108. an app_____te time *adj.* suitable or proper in the circumstances; fitting

ANSWERS: 99. crisis, 100. adjust, 101. prototype, 102. extreme, 103. launch, 104. emergency, 105. conventional, 106. attempt, 107. provider, 108. appropriate

109. lu___y hotel *n.* a state of great comfort or sophistication, mainly provided by expensive and beautiful things
110. uns_____le pain *adj.* too terrible, shocking, or distressing to speak about
111. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
112. dr_____g for design *n.* the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
113. ger_____cs clinic *n.* a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults
114. be_____s pump *n.* a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
115. gas fi___r *n.* any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
116. la___h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

ANSWERS: 109. luxury, 110. unspeakable, 111. operate, 112. drawing, 113. geriatrics, 114. bellows, 115. filter, 116. launch

117. cr___s management *n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
118. cardiac su____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
119. a me____l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
120. ob____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
121. information gat____er *n.* a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest
122. pa____ze a person *v.* to cause a person or part of the body to become unable to move or feel
123. en____e value *v.* to increase or improve the quality, amount, or strength of someone or something

ANSWERS: 117. crisis, 118. surgery, 119. medical, 120. observe, 121. gatekeeper, 122. paralyze, 123. enhance

124. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
125. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
126. record driving aut_____lly *adv.* without needing a direct human control
127. high pu___y *n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
128. ancient pr_____b *n.* a short saying that expresses a truth or gives advice based on practical experience
129. a tr_____y during work *n.* an event or situation causing great loss, misfortune, or destruction; a play or literature that deals with a severe and sad event and often ends with the death of the main character
130. a qu_____ed doctor *adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job
131. su___e muscles *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
132. antidiarrheal ag__t *n.* a person who represents and negotiates on behalf of someone else, such as a literary agent or talent agent; (of chemistry and medicine) a substance that brings about a chemical or physical effect; (of computer science) a piece of software that performs a task autonomously

ANSWERS: 124. algorithm, 125. environment, 126. automatically, 127. purity, 128. proverb, 129. tragedy, 130. qualified, 131. supple, 132. agent

133. in___e the smoke *v.* to breathe in air or a different substance, such as smoke
134. performance bot_____ck *n.* a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry
135. s__p seats *v.* to give something and receive something in trade
136. a criminal bac_____nd *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
137. spe_____ed equipment *adj.* possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function
138. spe_____ed knowledge *adj.* possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function
139. translate li_____ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
140. 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

ANSWERS: 133. inhale, 134. bottleneck, 135. swap, 136. background, 137. specialized, 138. specialized, 139. literally, 140. simulate

141. special de____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
142. photo in gl____us color *adj.* having or deserving great admiration, praise, and honor; having great beauty and splendor
143. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
144. 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
145. a de____te flavor *adj.* very fine, subtle, and pleasing; easily broken or damaged or destroyed
146. ane_____ic injection *n.* a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain
147. perfect mi____e *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
148. re____te a single country *v.* to make something that existed previously happen or appear to exist again

ANSWERS: 141. delivery, 142. glorious, 143. concentration, 144. process, 145. delicate, 146. anesthetic, 147. mixture, 148. recreate

149. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
150. cir_____nce of injury *n.* the specific conditions or events that surround a particular situation or occurrence
151. severe cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
152. ch__f accountant *adj.* most important or primary; (noun) a person who is in charge
153. his conclusion was ob____s *adj.* easy to see, discover or understand
154. l__g capacity *n.* either of the two organs in the chest that people and some animals use for breathing
155. electric scr_____er *n.* a tool used for turning screws, typically consisting of a handle and a metal rod with a flattened tip that fits into the slot on the head of a screw; a popular cocktail made with vodka and orange juice
156. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
157. par_____ip across the Atlantic *n.* the state of a cooperative relationship between people or groups, especially in business

ANSWERS: 149. incredibly, 150. circumstance, 151. critic, 152. chief, 153. obvious, 154. lung, 155. screwdriver, 156. function, 157. partnership

158. ped_____cs clinic *n.* the branch of medicine that deals with the care and treatment of children
159. the per_____ge of the gold content *n.* the number, amount, or rate of something, which is usually the amount per hundred
160. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
161. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
162. mi_____e of emotions *n.* a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties
163. ob_____s reasons *adj.* easy to see, discover or understand
164. temporary me_____l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
165. obs_____cs ward *n.* the branch of medicine that deals with the care of women during pregnancy, childbirth, and the postpartum period, including the management of complications and the health of the mother and baby
166. his research area of
con_____ion *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
167. school di_____cts *n.* a part of a country or town, especially one with particular features

ANSWERS: 158. pediatrics, 159. percentage, 160. eventually, 161. engineer, 162. mixture, 163. obvious, 164. medical, 165. obstetrics, 166. concentration, 167. district

168. inf_____ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
169. the aftermath of this tr_____y *n.* an event or situation causing great loss, misfortune, or destruction; a play or literature that deals with a severe and sad event and often ends with the death of the main character
170. um_____n hours *adj.* very many; relating to a large or indefinite number of something
171. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
172. a bac_____nd color *n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
173. bite his tongue li_____ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively
174. vi_____ly all countries *adv.* almost completely
175. a sop_____ted lifestyle *adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion
176. open the can with a scr_____er *n.* a tool used for turning screws, typically consisting of a handle and a metal rod with a flattened tip that fits into the slot on the head of a screw; a popular cocktail made with vodka and orange juice

ANSWERS: 168. infrastructure, 169. tragedy, 170. umpteen, 171. incredibly, 172. background, 173. literally, 174. virtually, 175. sophisticated, 176. screwdriver

177. di___e a great idea *v.* to make a substance less concentrated by adding a liquid or another substance to it
178. specialized ane_____ist *n.* a medical doctor who specializes in administering anesthesia to help control pain and monitor the vital signs of patients during procedures and surgeries
179. in__t temperature *n.* a small arm of the sea, a lake, or a river, usually leading inland
180. a qu_____r mile *n.* one of four equal parts; a fourth part or portion
181. si_____ar purpose *n.* being only one of its kind; unique
182. bu_____in feature *adj.* included as an integral part of something
183. eq__p our children with some special skills *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
184. str_____ard manner *adj.* easy to do or understand, or simple; free from ambiguity
185. prove unr_____le *adj.* not able to be trusted or depended on
186. the hydrogen binds the ox___n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
187. live an ab_____nt life *adj.* present in great quantity
188. random number ge_____or *n.* a machine that produces electricity

ANSWERS: 177. dilute, 178. anesthesiologist, 179. inlet, 180. quarter, 181. singular, 182. built-in, 183. equip, 184. straightforward, 185. unreliable, 186. oxygen, 187. abundant, 188. generator

189. fr____nt use *adj.* happening constantly
190. an information pr____er *n.* a person or an organization that supplies somebody with something needed or wanted
191. as___p at the wheel *adj.* in a state of sleep
192. ru___d landscape *adj.* having a rough, uneven, or jagged surface or terrain; characterized by a sturdy, strong, or robust nature
193. 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
194. distance g_p *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
195. people in ru__l areas *adj.* of or relating to the countryside
196. sc__b off graffiti *v.* to clean something thoroughly, typically with a brush and soap or detergent
197. have si_____ly great abilities *adv.* in almost the same way
198. eq__p an army *v.* to provide a person or a place with the things that are needed for a particular purpose or activity
199. bot_____ck in production *n.* a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry
200. me_____n name *v.* to speak or write about something or someone briefly

ANSWERS: 189. frequent, 190. provider, 191. asleep, 192. rugged, 193. algorithm, 194. gap, 195. rural, 196. scrub, 197. similarly, 198. equip, 199. bottleneck, 200. mention

201. de____te attention	<i>adj.</i> very fine, subtle, and pleasing; easily broken or damaged or destroyed
202. key co_____nt	<i>n.</i> one of several parts that combines with others to form something bigger
203. sc__b dirt from potatoes	<i>v.</i> to clean something thoroughly, typically with a brush and soap or detergent
204. clogged fi____r	<i>n.</i> any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
205. ru____d coastline	<i>adj.</i> having a rough, uneven, or jagged surface or terrain; characterized by a sturdy, strong, or robust nature
206. tra_____on phase	<i>n.</i> the process or period of changing from one state or circumstance to another
207. co_____ss gas	<i>v.</i> to press or squeeze together to make something take up less space
208. cognitive com_____ty	<i>n.</i> the state or quality of being complicated or intricate and difficult to understand
209. pe_____ve language	<i>adj.</i> spreading or existing throughout every part of a thing or place
210. a h_x format	<i>n.</i> a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base
211. look at the ma____l	<i>adj.</i> done by hand rather than by machine; (noun) a book of instructions, especially for operating a machine or learning a subject

ANSWERS: 201. delicate, 202. component, 203. scrub, 204. filter, 205. rugged, 206. transition, 207. compress, 208. complexity, 209. pervasive, 210. hex, 211. manual

212. clinical ane_____ist *n.* a medical doctor who specializes in administering anesthesia to help control pain and monitor the vital signs of patients during procedures and surgeries
213. cir_____nce of birth *n.* the specific conditions or events that surround a particular situation or occurrence
214. ina_____ate behavior *adj.* not suitable or proper for a particular occasion, purpose, or person
215. j__k mail *n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
216. ve_____te my opinion *v.* to supply fresh air to a room, building, etc.; to remove stale air from it
217. complete a pr_____pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
218. ba_____y charging *n.* a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
219. IT inf_____ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
220. pa_____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

ANSWERS: 212. anesthesiologist, 213. circumstance, 214. inappropriate, 215. junk, 216. ventilate, 217. prototype, 218. battery, 219. infrastructure, 220. patient

221. acute em_____cy *n.* a sudden unforeseen crisis usually involving danger that requires immediate action
222. become ess_____ly same *adv.* relating to the essential features or concepts of anything
223. get into the lu____y car market *n.* a state of great comfort or sophistication, mainly provided by expensive and beautiful things
224. ad_____e circumstances *adj.* unfavorable or harmful
225. make a fr__k apology *adj.* honest and sincere; open and candid in expression
226. ane_____ia for surgery *n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
227. do l__g transplantation *n.* either of the two organs in the chest that people and some animals use for breathing
228. he_____ht adjustment *n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead
229. car with ma____l transmissions *adj.* done by hand rather than by machine; (noun) a book of instructions, especially for operating a machine or learning a subject
230. eff_____ess against insomnia *n.* the fact or quality of producing the result that is wanted or intended
231. improved student ou_____es *n.* the result or effect of an action, event, etc.

ANSWERS: 221. emergency, 222. essentially, 223. luxury, 224. adverse, 225. frank, 226. anesthesia, 227. lung, 228. headlight, 229. manual, 230. effectiveness, 231. outcome

232. dead as ___p *adj.* in a state of sleep
233. qu_____ed in medicine *adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job
234. a g__d design *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
235. ex_____e sports *adj.* very great in amount or degree
236. bu_____in battery *adj.* included as an integral part of something
237. degree in ele_____al engineering *adj.* relating to electricity
238. wr___h off the lock *v.* to pull or twist something suddenly or violently
239. co_____ss the chest *v.* to press or squeeze together to make something take up less space
240. gat_____er role *n.* a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest
241. look up___d *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place

ANSWERS: 232. asleep, 233. qualified, 234. grid, 235. extreme, 236. built-in, 237. electrical, 238. wrench, 239. compress, 240. gatekeeper, 241. upward

242. fo___d smoking in public areas *v.* to order somebody not to do something, especially officially; to keep something from happening or arising
243. fo___d the use of chemical weapons *v.* to order somebody not to do something, especially officially; to keep something from happening or arising
244. ad_____e reaction *adj.* unfavorable or harmful
245. vi_____ly identical *adv.* almost completely
246. collaborate with co_____ues *n.* one of a group of a coworker, especially in a profession or a business
247. mo_____r an exam *v.* to observe, check, and track the progress or quality of something over a period of time
248. ru__l accents *adj.* of or relating to the countryside
249. aus_____us timing *adj.* a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity
250. pa_____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
251. dynamically sc_____le *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
252. an excellent brain su_____n *n.* a doctor who is trained to perform medical operations that involve cutting open a person's body

ANSWERS: 242. forbid, 243. forbid, 244. adverse, 245. virtually, 246. colleague, 247. monitor, 248. rural, 249. auspicious, 250. patient, 251. scalable, 252. surgeon

253. a desirable ou____e *n.* the result or effect of an action, event, etc.
254. emergency ce____an *adj.* (also known as "C-section") relating to the delivery of a baby through a surgical incision made in the mother's abdomen and uterus rather than through vaginal birth
255. he____ht switch *n.* a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead
256. electronic de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
257. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
258. make a str_____ard dash *adj.* easy to do or understand, or simple; free from ambiguity
259. learn new co____ts *n.* an idea or principle associated with something abstract
260. per____al vision *adj.* relating to, located on or near, or constituting an outer boundary or edge; not central or essential
261. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
262. fr____te the advancement *v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something

ANSWERS: 253. outcome, 254. cesarean, 255. headlight, 256. device, 257. lab, 258. straightforward, 259. concept, 260. peripheral, 261. environment, 262. frustrate

263. wr___h my back *v.* to pull or twist something suddenly or violently
264. fr__k and open discussion *adj.* honest and sincere; open and candid in expression
265. hunk of j__k *n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition
266. blow a be_____s *n.* a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
267. clear in_____on *n.* something you want to do and are going to do
268. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
269. ag__t system *n.* a person who represents and negotiates on behalf of someone else, such as a literary agent or talent agent; (of chemistry and medicine) a substance that brings about a chemical or physical effect; (of computer science) a piece of software that performs a task autonomously
270. s__p columns with rows *v.* to give something and receive something in trade

ANSWERS: 263. wrench, 264. frank, 265. junk, 266. bellows, 267. intention, 268. represent, 269. agent, 270. swap

271. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
272. abruptly in_____pt *v.* to say or do something that causes someone to stop in their speech or action
273. ve_____te air *v.* to supply fresh air to a room, building, etc.; to remove stale air from it
274. demonstrate an up___d trend *adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place
275. ane_____ze a wound *v.* to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation
276. aff_____le solution *adj.* not expensive and able to pay
277. ch___f events of the year *adj.* most important or primary; (noun) a person who is in charge
278. an easy de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
279. an ab_____nt supply of water *adj.* present in great quantity
280. ad___t the rearview mirror *v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

ANSWERS: 271. represent, 272. interrupt, 273. ventilate, 274. upward, 275. anesthetize, 276. affordable, 277. chief, 278. delivery, 279. abundant, 280. adjust

281. obs_____cs clinic *n.* the branch of medicine that deals with the care of women during pregnancy, childbirth, and the postpartum period, including the management of complications and the health of the mother and baby
282. fr_____nt absence *adj.* happening constantly
283. ti____r with the bill *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
284. sh_____r with fear *v.* to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking
285. mo_____r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
286. a con_____nal style *adj.* based on or following traditional rules, standards, customs, etc.
287. sc_____le solution *adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
288. re_____e a phone *v.* to take the place of something
289. in__t valve *n.* a small arm of the sea, a lake, or a river, usually leading inland
290. uns_____le crime *adj.* too terrible, shocking, or distressing to speak about

ANSWERS: 281. obstetrics, 282. frequent, 283. tinker, 284. shudder, 285. monitor, 286. conventional, 287. scalable, 288. replace, 289. inlet, 290. unspeakable

291. in_____on behind his decision *n.* something you want to do and are going to do
292. ill_____te a story *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
293. manually op_____e a machine *v.* to work in a particular way; to supervise something
294. ti____r with the settings *v.* to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

ANSWERS: 291. intention, 292. illustrate, 293. operate, 294. tinker

Session 3: Fill in the Blanks

1. A deep sigh was _____ from his chest.
v. to pull or twist something suddenly or violently
2. The company's financial records _____ how successful it has been.
v. to provide pictures, photographs, diagrams, etc. in a book or something for explanation
3. There are _____ differences between the two wine-producing regions.
adj. easy to see, discover or understand
4. Advocates for legal reform hear less harsh words from their _____.
n. someone who expresses opinions about the quality of books, music, etc.
5. She decided to _____ the kitchen floor to remove all the dirt and grime.
v. to clean something thoroughly, typically with a brush and soap or detergent
6. The brain is an incredibly complex organ that controls the body's _____.
n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
7. One such rapidly growing _____ is quantum cryptography.
n. an idea or principle associated with something abstract
8. Macbeth is a famous _____ by Shakespeare.
n. an event or situation causing great loss, misfortune, or destruction; a play or literature that deals with a severe and sad event and often ends with the death of the main character

ANSWERS: 1. wrenched, 2. illustrate, 3. obvious, 4. critics, 5. scrub, 6. function, 7. concept, 8. tragedy

9. The night shift _____ checked my vital signs before administering the medication.
- n.* a healthcare professional who is trained to provide care for the sick or injured;
(verb) to try to cure by special care or treatment of an illness or injury
10. He has terminal _____ cancer.
- n.* either of the two organs in the chest that people and some animals use for breathing
11. Her sleep was _____ by recurring pain.
- v.* to say or do something that causes someone to stop in their speech or action
12. The company's new software is highly _____ allowing it to handle increasing number of users.
- adj.* capable of being easily expanded or increased in size, number, or scale to meet changing demands
13. The coach explained a strategy to _____ the opponent's schemes to the players.
- v.* to hinder or prevent efforts, plans, or desires from doing, succeeding, or being fulfilled; to make someone feel upset or annoyed because they are unable to change or achieve something
14. People select Internet _____ not only in terms of price but also in terms of transmission speed.
- n.* a person or an organization that supplies somebody with something needed or wanted
15. 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

ANSWERS: 9. nurse, 10. lung, 11. interrupted, 12. scalable, 13. frustrate, 14. providers, 15. simulate

16. The company's hiring criteria emphasize personality, not a person's _____.
- n.* the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
17. She _____ the files into a single ZIP archive to save space on her computer.
- v.* to press or squeeze together to make something take up less space
18. Eventually, the new design will _____ all older models.
- v.* to take the place of something
19. The experienced _____ monitored the patient's vital signs throughout the procedure.
- n.* a medical doctor who specializes in administering anesthesia to help control pain and monitor the vital signs of patients during procedures and surgeries
20. The hospital's _____ department is responsible for caring for pregnant women and delivering babies.
- n.* the branch of medicine that deals with the care of women during pregnancy, childbirth, and the postpartum period, including the management of complications and the health of the mother and baby
21. The _____ scarcity most severely impacted the manufacturing sector
- n.* a substance that is typically burned to generate heat or energy
22. Solar gravity creates _____ pressures and temperatures.
- adj.* very great in amount or degree

ANSWERS: 16. background, 17. compressed, 18. replace, 19. anesthesiologist, 20. obstetrics, 21. fuel, 22. extreme

23. This machine cuts metal by _____ control.

adj. done by hand rather than by machine; (noun) a book of instructions, especially for operating a machine or learning a subject

24. Skydiving is an overwhelming _____ for many people.

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

25. The _____ beauty of the night sky never ceases to amaze him.

n. being only one of its kind; unique

26. The _____ team worked quickly to save the patient's life.

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

27. The new car had a _____ navigation system.

adj. included as an integral part of something

28. Suspicion and worry were _____ in our minds.

adj. spreading or existing throughout every part of a thing or place

29. I always carry a backup _____ in case my phone runs out of battery.

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

30. The third _____ was far more successful.

n. an act or effort of trying to do something, especially something difficult

31. He _____ jumped out of his chair when he heard the news.

adv. in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

ANSWERS: 23. manual, 24. thrill, 25. singular, 26. medical, 27. built-in, 28. pervasive, 29. device, 30. attempt, 31. literally

32. 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
33. It seems _____ that he has forgotten our scheduled meeting.
adj. likely to happen or likely to be true
34. _____ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.
adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
35. 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
36. It was highly _____ to make jokes during a serious business meeting.
adj. not suitable or proper for a particular occasion, purpose, or person
37. The fresh green trees cast a _____ web of shadows over the lawn.
adj. very fine, subtle, and pleasing; easily broken or damaged or destroyed
38. He spent the afternoon _____ with his car engine.
v. to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
39. Several cities are experiencing _____ high unemployment rates.
adv. in a way that is very difficult to believe; exceedingly or extremely

ANSWERS: 32. sensor, 33. probable, 34. Biomedical, 35. environment, 36. inappropriate, 37. delicate, 38. tinkering, 39. incredibly

40. The project's _____ made it difficult for the team to complete it on time.
n. the state or quality of being complicated or intricate and difficult to understand
41. The construction company _____ the building with an earthquake-resistant device.
v. to provide a person or a place with the things that are needed for a particular purpose or activity
42. He could never go against what ____ Carlos said.
n. a Spanish gentleman; a university lecturer, especially a senior member of a college at Oxford or Cambridge
43. I choose a _____ death rather than a shameful life.
adj. having or deserving great admiration, praise, and honor; having great beauty and splendor
44. The _____ weather conditions forced us to cancel the outdoor event.
adj. unfavorable or harmful
45. Detergent weakens the surface tension at the _____ of two liquids.
n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
46. The ballerina's _____ movements left the audience mesmerized.
adj. flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
47. This product is a durable material that combines cost-_____ and quality.
n. the fact or quality of producing the result that is wanted or intended

ANSWERS: 40. complexity, 41. equipped, 42. Don, 43. glorious, 44. adverse, 45. interface, 46. supple, 47. effectiveness

48. The boat sailed through the narrow _____ and into the harbor.
n. a small arm of the sea, a lake, or a river, usually leading inland
49. After moving around the world _____ times, I finally settled in my hometown.
adj. very many; relating to a large or indefinite number of something
50. God _____ you should regret your marriage.
v. to order somebody not to do something, especially officially; to keep something from happening or arising
51. The product developed through years of research continues to _____ the market.
v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
52. The nation's healthcare system is in _____ at the moment.
n. the process or period of changing from one state or circumstance to another
53. Some people believe that the ____ placed on their house is causing strange and unexplained occurrences.
n. a spell or curse that is believed to bring bad luck or harm to someone;
(adjective) of or relating to a number system having 16 as its base
54. She received special _____ training at the hospital.
adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
55. The _____ start to the new year brought hope for better times ahead.
adj. a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity

ANSWERS: 48. inlet, 49. umpteen, 50. forbid, 51. electrify, 52. transition, 53. hex, 54. clinical, 55. auspicious

56. 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
57. The meeting aims to _____ possible choices.
- v.* to assess or estimate the quality, significance, quantity, or value of something
58. Many _____ areas are still impoverished.
- adj.* of or relating to the countryside
59. Memory bandwidth is a significant _____ in this computational simulation.
- n.* a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry
60. The dentist administered an _____ to numb the patient's mouth before the procedure.
- n.* a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain
61. Our subscription plan is _____ renewed.
- adv.* without needing a direct human control
62. _____ all the parties signed the contract.
- adv.* almost completely
63. The president declared a state of _____.
- n.* a sudden unforeseen crisis usually involving danger that requires immediate action

ANSWERS: 56. algorithm, 57. evaluate, 58. rural, 59. bottleneck, 60. anesthetic, 61. automatically, 62. Virtually, 63. emergency

64. She _____ the concentrated juice with water.
- v.* to make a substance less concentrated by adding a liquid or another substance to it
65. The _____ recovery period can be longer and more challenging than a vaginal birth recovery.
- adj.* (also known as "C-section") relating to the delivery of a baby through a surgical incision made in the mother's abdomen and uterus rather than through vaginal birth
66. Since 2001, the _____ has provided training programs for automotive technicians.
- n.* a part of a country or town, especially one with particular features
67. Don't _____ horses while crossing a stream.
- v.* to give something and receive something in trade
68. The automaker has been providing _____ car financing options since last year.
- adj.* not expensive and able to pay
69. Most data centers have emergency _____ on standby at all times.
- n.* a machine that produces electricity
70. The blacksmith's apprentice operated the _____ to maintain the forge's heat.
- n.* a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
71. I _____ to him that I had seen his sister at the grocery store earlier that day.
- v.* to speak or write about something or someone briefly

ANSWERS: 64. diluted, 65. cesarean, 66. district, 67. swap, 68. affordable, 69. generators, 70. bellows, 71. mentioned

72. The _____ truck arrived with the packages.

- n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth

73. The company adjusted the revenue _____.

- adv.* toward the top or highest point, or a higher position or level; (adjective) extending or moving toward a higher place

74. Aging societies tend to require huge costs for _____ maintenance.

- n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies

75. Our CEO's _____ are always transparent and straightforward.

- n.* something you want to do and are going to do

76. _____ a society is an organism.

- adv.* relating to the essential features or concepts of anything

77. I need to clear out some of the _____ in my garage.

- n.* discarded or unused material or objects, often considered worthless or of little value; also used to describe cheap or poorly made items or food that is high in calories but lacking in nutrition

78. It's important to _____ the room to avoid the buildup of harmful gases.

- v.* to supply fresh air to a room, building, etc.; to remove stale air from it

79. _____ pattern roads often appear in urban areas.

- n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region

ANSWERS: 72. delivery, 73. upward, 74. infrastructure, 75. intentions, 76. Essentially, 77. junk, 78. ventilate, 79. Grid

80. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
81. The museum houses a _____ collection of Celtic artifacts.
adj. extremely interesting
82. She is very _____ in her thoughts.
adj. based on or following traditional rules, standards, customs, etc.
83. She _____ the atmosphere of the pre-war age with her stage setting.
v. to make something that existed previously happen or appear to exist again
84. 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
85. Actuators convert _____ pulses into motion.
adj. relating to electricity
86. The engine did not start because the _____ was flat.
n. a device that is placed inside a car, gadget, equipment, etc. and that provides electrical power to them
87. We must _____ a new system to streamline our workflow and increase efficiency.
v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 80. engineer, 81. fascinating, 82. conventional, 83. recreated, 84. process, 85. electrical, 86. battery, 87. develop

88. This exam requires excellent _____ to pass.
- n.* the ability to focus all your time and energy on one thing without thinking about anything else.
89. The unemployment rate in the first _____ was 2.3 percentage points higher than in the previous.
- n.* one of four equal parts; a fourth part or portion
90. He is in general _____ under the surgeon.
- n.* a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
91. The doctor carefully examined the _____ medical history.
- n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
92. The country has _____ oil and natural gas resources.
- adj.* present in great quantity
93. The hospital has many _____ departments, including cardiology and oncology.
- adj.* possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function
94. We seek a person _____ for the post.
- adj.* officially recognized as having completed a training course or passed the exams that are necessary to perform a particular job
95. He had undergone heart _____ years before.
- n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 88. concentration, 89. quarter, 90. anesthesia, 91. patient's, 92. abundant, 93. specialized, 94. qualified, 95. surgery

96. You have to _____ your content to the age of the audience.

- v.* to make a minor modification to something to make it more suited for a new set of conditions or to make it function better.

97. The venom from the snake bite _____ his arm.

- v.* to cause a person or part of the body to become unable to move or feel

98. Mining is a _____ source of income for the country.

- adj.* most important or primary; (noun) a person who is in charge

99. His anti-_____ practices were quite strict.

- n.* a state of great comfort or sophistication, mainly provided by expensive and beautiful things

100. His heartaches are less _____ now.

- adj.* happening constantly

101. The hikers braved the _____ terrain to reach the summit of the mountain.

- adj.* having a rough, uneven, or jagged surface or terrain; characterized by a sturdy, strong, or robust nature

102. I need a flathead _____ to tighten the loose screws on this cabinet.

- n.* a tool used for turning screws, typically consisting of a handle and a metal rod with a flattened tip that fits into the slot on the head of a screw; a popular cocktail made with vodka and orange juice

103. Marketing strategies are growing more _____.

- adj.* having a great deal of worldly experience and knowledge of people's behavior, culture, and fashion

ANSWERS: 96. adjust, 97. paralyzed, 98. chief, 99. luxury, 100. frequent, 101. rugged, 102. screwdriver, 103. sophisticated

104. He _____ deeply, trying to calm down.

v. to breathe in air or a different substance, such as smoke

105. By incorrect assumption, statistics can be notoriously _____.

adj. not able to be trusted or depended on

106. The city's _____ areas should be given more attention regarding infrastructure and resources.

adj. relating to, located on or near, or constituting an outer boundary or edge; not central or essential

107. The FBI _____ went undercover to infiltrate the criminal organization.

n. a person who represents and negotiates on behalf of someone else, such as a literary agent or talent agent; (of chemistry and medicine) a substance that brings about a chemical or physical effect; (of computer science) a piece of software that performs a task autonomously

108. We argue that wages for temporary workers should _____ rise.

adv. in almost the same way

109. The dentist will _____ your mouth before removing your wisdom teeth.

v. to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation

110. The flying car is presently in the _____ stage.

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

111. The paint was a _____ of different pigments to achieve the desired color.

n. a combination of different elements, substances, or entities, usually in non-uniform proportions, resulting in a homogeneous or heterogeneous blend of physical or chemical properties

ANSWERS: 104. inhaled, 105. unreliable, 106. peripheral, 107. agent, 108. similarly, 109. anesthetize, 110. prototype, 111. mixture

112. She explained the _____ surrounding the accident.

n. the specific conditions or events that surround a particular situation or occurrence

113. The Prime Minister will pay a courtesy visit to the Nobel laureate's ____.

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

114. The picture earned near-_____ acclaim from critics.

adj. existing or affecting everywhere or everyone

115. My car's _____ must be replaced before I drive again at night.

n. a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead

116. The survivors of the plane crash could only describe the _____ horror of the experience.

adj. too terrible, shocking, or distressing to speak about

117. Many people are working together to close the gender ____.

n. a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.

118. I couldn't help but _____ when I heard the scary noise from the dark alleyway.

v. to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking

119. They awaited news of the _____ of the election.

n. the result or effect of an action, event, etc.

ANSWERS: 112. circumstances, 113. lab, 114. universal, 115. headlight, 116. unspeakable, 117. gap, 118. shudder, 119. outcome

120. He lay down and fell _____ immediately.

adj. in a state of sleep

121. This machine is too difficult to _____ for me.

v. to work in a particular way; to supervise something

122. The Chinese word for _____ comprises two characters, one for danger and the other for opportunity.

n. a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken

123. The defendant gave a _____ and accurate description of the accident.

adj. easy to do or understand, or simple; free from ambiguity

124. The corporation _____ dominated the entire tobacco business.

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

125. The company is set to _____ its new product line next month.

v. to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time

126. The military _____ between the two countries created tension in the international community.

n. the state of a cooperative relationship between people or groups, especially in business

127. Full involvement means _____ and prompt responses.

adj. honest and sincere; open and candid in expression

ANSWERS: 120. asleep, 121. operate, 122. crisis, 123. straightforward, 124. eventually, 125. launch, 126. partnership, 127. frank

128. She is talented at _____ and has won several awards for her artwork.
- n.* the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
129. The famous _____ "actions speak louder than words" reminds us to focus on deeds instead of words.
- n.* a short saying that expresses a truth or gives advice based on practical experience
130. He is a skilled _____ that has many years of training and experience.
- n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
131. What is the _____ of the consumption tax in the United States?
- n.* the number, amount, or rate of something, which is usually the amount per hundred
132. Higher _____ requires additional equipment and energy.
- n.* the state of being undiluted or unmixed with anything else; the state of being free from immorality, especially of a sexual nature
133. I am studying _____ in medical school because I love working with children.
- n.* the branch of medicine that deals with the care and treatment of children
134. We _____ the season's total trade deficit at \$50 billion.
- v.* to guess or calculate the cost, size, value, etc. of something
135. We elected him to _____ us at the international conference.
- v.* to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 128. drawing, 129. proverb, 130. surgeon, 131. percentage, 132. purity, 133. pediatrics, 134. estimated, 135. represent

136. They used a special receiver to _____ police radio channels.

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

137. The company's _____ all incoming phone calls and emails to ensure only important ones reached the boss.

- n.* a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest

138. The passenger grabbed for the _____ mask.

- n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

139. The _____ department focuses on the healthcare needs of elderly patients.

- n.* a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults

140. The new strategy will _____ the profitability of our company.

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

141. It is important to _____ safety procedures in the workplace to prevent accidents.

- v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

ANSWERS: 136. monitor, 137. gatekeeper screened, 138. oxygen, 139. geriatrics, 140. enhance, 141. observe

142. The researchers try to discover a common _____ in all types of successful organizations.
n. one of several parts that combines with others to form something bigger
143. She studies gardening on a _____ basis.
n. a usual or habitual way of doing things; a set sequence of steps, part of a larger computer program
144. Ozone is a primary _____ to protect Earth's surface from harmful UV rays.
n. any of several types of equipment or systems used to separate particles from liquids or gases or to remove specific forms of light
145. I decided to seek counseling on the advice of my _____.
n. one of a group of a coworker, especially in a profession or a business
146. The rain and thunder are _____ today.
adj. stupid or not sensible; very angry
147. It would be _____ to dress nicely for the wedding.
adj. suitable or proper in the circumstances; fitting

ANSWERS: 142. component, 143. routine, 144. filter, 145. colleague, 146. crazy, 147. appropriate