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Vocabulary Builder Reference from...

Mohamed Hijri: A simple solution to the coming phosphorus crisis | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

algae

n. A simple plant that grows in or near water and lacks typical leaves and roots

(1) **algae** biofuel, (2) blue **algae**

Algae has jammed the inlet to the water turbine.

disappoint

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

synonym: sadden, dismay, frustrate

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

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

refer

v. to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

synonym: cite, allude, mention

(1) **refer** to a book, (2) **refer** to a map

Please **refer** to the instruction manual for further assistance.

phosphorus

n. a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element

synonym: P, phosphoric, phosphorous

(1) **phosphorus** element, (2) yellow **phosphorus**
Phosphorus compounds are commonly used to manufacture fertilizers to promote plant growth.

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.

fertilizer

n. a natural or chemical substance added to soil to make plants grow more successfully

synonym: manure

(1) a chemical **fertilizer**, (2) nonsynthetic **fertilizer**

Nitrogen fixation by the Haber-Bosch method leads to the mass production of **fertilizers**.

chemical

adj. relating to or connected with chemistry;

synonym: chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

agriculture

n. the practice or science of cultivating the land or raising stock

synonym: farming, husbandry, agribusiness

(1) organic **agriculture**, (2) intensive **agriculture**

Agriculture is the foundation of our economy.

yield

n. the total output of crops, profits, etc. that are produced;
(verb) to produce or supply helpful something, such as a profit, an amount of food, or information

synonym: proceeds, harvest, output

(1) corn **yield**, (2) the **yield** on the bond

The company's stock gives a high **yield**.

engender

v. to make a feeling or situation exist; to cause or give rise to

synonym: beget, spawn, generate

(1) **engender** a crisis, (2) **engender** the trust

The discussion about war helps **engender** a sense of shared humanity.

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**.

precedent

n. a previous event or action that serves as an example or rule to authorize or justify similar events or actions in the future

synonym: example, model, pattern

(1) break with **precedent**, (2) a bad **precedent**

The court used previous **precedents** to make its decision.

biology

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

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

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

nutrient

n. any substance that is essential for the maintenance and growth of living things

synonym: food, vitamin

(1) **nutrient** medicine, (2) a **nutrient** for hair

They used fast-acting **nutrients** on the flowers in the flower beds.

soil

n. the top layer of Earth in which plants grow

synonym: earth, ground, mud

(1) **soils** retentive of moisture, (2) parched **soil**

Soil moisture is another significant component controlling soil respiration.

essential

adj. indispensable; fundamental

synonym : critical, crucial, basic

(1) **essential** amino acid, (2) **essential** commodities of life
Trial and error is an **essential** part of education.

nitrogen

n. a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins

(1) heavy **nitrogen**, (2) **nitrogen** absorption

Nitrogen gas is used to inflate car tires because it does not react with rubber.

calcium

n. a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body

synonym : Ca, lime, chalk

(1) **calcium** deficiency, (2) ion of **calcium**

The patient was prescribed a **calcium** supplement to help prevent osteoporosis.

extract

n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

synonym : excerpt, quote, distillation

(1) a brief **extract** from the book, (2) botanical **extract**

Anesthetize the gum before **extracting** the teeth.

problematic

adj. full of difficulties; difficult to deal with or solve

synonym : inappropriate, inconvenient, worrisome

(1) a **problematic** situation, (2) seems to be highly **problematic**

Direct democracy is effective in quickly resolving

problematic situations within a community.

precise

adj. sharply exact or accurate or delimited

synonym : accurate, exact, distinct

(1) **precise** analyses, (2) estimate **precise** costs

The content is **precise** and informative for me.

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.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

cellular

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

synonym : organic, biological, nuclear

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

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

communicate

v. to share or exchange information with others by speaking, writing, moving your body, or using other signals

synonym : convey, share, transmit

(1) **communicate** his anxieties to the psychiatrist,

(2) **communicate** well with my advisor

Dolphins use sound to **communicate** with each other.

membrane

n. a soft, thin layer that forms animal or vegetable tissue
synonym : tissue layer

(1) cell **membranes**, (2) nuclear **membrane**

Loud noises might harm the fragile ear **membrane**.

phospholipid

n. a type of lipid that is an essential component of cell membranes, consisting of a phosphate group (= a chemical compound made up of phosphorus and oxygen), glycerol (= a colorless, odorless, sweet-tasting, viscous liquid), and fatty acid chains

(1) **phospholipid** bilayers, (2) synthetic **phospholipid**

Liposomes are microscopic vesicles made up of **phospholipids** used in drug delivery systems.

genetic

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

synonym : hereditary, genetical, inborn

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

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

heritage

n. the culture and traditions that are passed down from previous generations

synonym : legacy, tradition, inheritance

(1) **heritage** site, (2) historical **heritage**

The **heritage** of the city is reflected in its architecture.

modern

adj. of or belonging to the present time or recent times

synonym : contemporary, stylish, current

(1) **modern** poetry, (2) pre- **modern** agricultural society

Their headquarters are in a **modern** skyscraper.

intensive

adj. involving a lot of work or activity in a short time

synonym : thorough, comprehensive, in-depth

(1) **intensive** agriculture, (2) **intensive** care

The construction industry is labor **intensive**, although it has

been somewhat automated by introducing large machinery.

suppose

v. to think that something is likely to be actual or possible
synonym: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand
What do you **suppose** the culprit's motive was?

illogical

adj. not making sense or not based on sound reasoning
synonym: irrational, senseless, nonsensical

(1) **illogical** argument, (2) **illogical** reasoning
His argument made no sense and was completely **illogical**.

wasteful

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

synonym: uneconomical, extravagant, profligate

(1) **wasteful** practices, (2) **wasteful** habits
Buying new clothes every week is a **wasteful** use of money and resources.

unfortunately

adv. by bad luck; unluckily
synonym: regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

extraordinary

adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual

synonym: exceptional, noteworthy, astonishing

(1) **extraordinary** ability, (2) **extraordinary** weather
He narrated the **extraordinary** story of his adventure.

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.

discuss

v. to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic

synonym : talk about, converse, debate

(1) **discuss** options, (2) **discuss** solutions

We need to **discuss** the next steps for the project during our meeting tomorrow.

increasingly

adv. more and more

synonym : more and more, progressively

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

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

scarce

adj. not abundant or plentiful, and therefore not easy to find or obtain

synonym : rare, limited, sparse

(1) **scarce** resources, (2) capital- **scarce** country

Fresh water is becoming increasingly **scarce** in many parts of the world.

politician

n. a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.

synonym : congressperson, lawmaker, legislator

(1) a **politician** in the ruling party, (2) a corrupt **politician**

The **politician** lost his position in the end due to the scandal.

pit

n. a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit

synonym: hole, depression, indentation

(1) the bottomless **pit**, (2) the **pit** of the stomach

The **pit** of the avocado can be removed by gently wedging a spoon around it.

dimension

n. a measurable extent of a particular kind, such as width, height, or length

synonym: extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**

Overall **dimensions** are approximately 400x200mm.

giant

adj. enormous; much bigger or more important than similar items usually are

synonym: big, gigantic, huge

(1) **giant** trees, (2) **giant** tech company

The **giant** jets gradually dominate the world's airlines.

perspective

n. a confident attitude toward something; a particular style of thinking about something

synonym: viewpoint, standpoint, outlook

(1) a **perspective** view, (2) the **perspective** of the battle

His father's death changed his whole **perspective** on life.

comparison

n. the consideration or examination of the similarities between two or more people or things

synonym: equivalence, analogy, contrast

(1) ease of **comparison**, (2) **comparison** of foods on a caloric basis

I've included the two designs for a **comparison**.

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.

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.

biofuel

n. a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels

synonym: renewable energy, green fuel, alternative fuel

(1) **biofuel** production, (2) **biofuel** technology

The airplane was powered by a **biofuel** made from plant-based materials.

hydropower

n. electricity generated from the energy of moving water, usually using turbines and dams in rivers or other bodies of water

synonym: hydroelectricity, waterpower, hydro

(1) **hydropower** plant, (2) **hydropower** energy

Many countries around the world have built dams to harness the power of **hydropower** for their energy needs.

indispensable

adj. so good or important that you could not be omitted or remitted; absolutely necessary

synonym: critical, essential, integral

(1) an **indispensable** duty, (2) foods **indispensable** to good nutrition

She is **indispensable** to our team.

reserve

v. to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance

synonym: keep, hold, preserve

(1) **reserve** the right, (2) **reserve** a concert ticket

You can easily **reserve** seats over the telephone.

graph

n. a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are

related to each other

synonym : chart, diagram, figure

(1) **graph** theory, (2) a **graph** sample

This bar **graph** shows sales over the past five years.

rough

adj. not quite exact or correct; having or caused by an irregular surface

synonym : inelegant, coarse, barbarian

(1) **rough** and tough, (2) **rough** estimation

The vehicle bounced along the **rough** mountain road.

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.

prediction

n. the act of predicting the future by reasoning; a statement made about the future

synonym : forecast, anticipation, foretelling

(1) make my **predictions**, (2) gloomy **predictions**

These results muddied the **prediction**.

peak

n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

synonym : summit, vertex, apex

(1) at **peak** hour, (2) the **peak** current in the circuit

This measurement aims to reduce traffic at **peak** periods.

dot

n. a very small circular mark, especially one that is printed

synonym : drop, dab, fleck

(1) connecting the **dots**, (2) **dot** blot method

The wallpaper had a pattern of pink **dots** on a white surface.

retire

v. to withdraw from one's position or occupation, especially because of age

synonym : relinquish, step down, withdraw

(1) **retire** voluntarily, (2) **retire** after four terms

After working for the company for 30 years, she decided to **retire** from her job.

paradox

n. a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;

synonym : incongruity, dichotomy, contradiction

(1) French **paradox**, (2) the **paradox** of the heap

There are many theories to explain this **paradox**.

organization

n. a group of people who work together for a shared purpose

synonym : association, institution, community

(1) **organization** chart, (2) agricultural **organization**

She is the president of a large international **organization**.

paradoxical

adj. seemingly contradictory or absurd because of having two opposite features or facts, though it is probably true

synonym : contradictory, conflicting, perplexing

(1) a **paradoxical** anecdote, (2) apparently **paradoxical** it is **paradoxical** that the French, who prefer animal foods, live longer than people in other countries.

alternative

n. one of two or more available possibilities or choice

synonym : choice, option

(1) an **alternative** plan, (2) there is no other **alternative** Doctors are gradually coming around to the idea of using **alternative** medicines.

optimize

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

synonym : advance, amend, improve

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

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

destine

v. to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome

synonym : ordain, doom, predestine

(1) **destine** us to meet again, (2) be **destined** to become a great artist

Some people believe that we are all **destined** for greatness.

microscopic

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

synonym : infinitesimal, tiny, atomic

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

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

mushroom

n. a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap

synonym : fungus, toadstool

(1) **mushroom** spores, (2) **mushroom** cultivation

The **mushroom** risotto was delicious, but I couldn't identify all the mushrooms in it.

mysterious

adj. difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

synonym : enigmatic, cryptic, puzzling

(1) **mysterious** object, (2) **mysterious** stranger

The **mysterious** disappearance of the ship remains unsolved.

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.

fascinate

v. to attract and hold the attention of someone deeply and irresistibly

synonym: captivate, intrigue, mesmerize

(1) **fascinate** the public, (2) **fascinate** the young

The magic tricks **fascinated** the children.

laboratory

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

synonym: lab, workshop, testing room

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

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

symbiosis

n. a close, prolonged association between two or more different species of organisms, typically to the advantage of all

synonym: cooperation, interdependence, mutualism

(1) industrial **symbiosis**, (2) **symbiosis** establishment

The **symbiosis** between the coral and the algae is an important example of mutualism.

bidirectional

adj. capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions

synonym: two-way, reciprocal, dual

(1) **bidirectional** communication, (2) **bidirectional** street

The **bidirectional** flow of information allows for efficient communication between the two departments.

mutual

adj. common to or shared by two or more parties

synonym: shared, common, joint

(1) share of a **mutual** fund, (2) **mutual** efforts

They cooperated for their **mutual** benefit.

beneficial

adj. helpful, useful, or sound; promoting or enhancing well-being

synonym : useful, advantageous, fruitful

(1) a **beneficial** result, (2) **beneficial** to all countries

Laughing is **beneficial** to our health.

association

n. a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship

synonym : affiliation, collaboration, society

(1) word **associations**, (2) a scholarship **association**

His membership in the **association** provided him with numerous benefits.

mycorrhiza

n. a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis

synonym : fungus, root, relationship

(1) **mycorrhiza** fungi, (2) orchid **mycorrhiza**

Some studies have shown that plants grown in soil with a high population of **mycorrhizal** fungi are more resistant to drought and disease.

slide

v. to move or cause to move smoothly along a surface without interruption

synonym : glide, drift, drop

(1) **slide** a card across the table, (2) **slide** a glance

If necessary, you can **slide** the front seats forward.

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.

wheat

n. a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc

synonym : grain, cereal

(1) harvesting **wheat**, (2) **wheat** crop

The farmer grew **wheat** on his land.

normally

adv. usually; under normal conditions

synonym : commonly, generally, naturally

(1) complete **normally**, (2) not **normally** drink much

I don't **normally** take a vacation in the middle of summer.

surround

v. to be all around something or somebody

synonym : encircle, encompass, envelop

(1) **surround** a town, (2) a stone wall **surrounds** the palace

On three sides, mountains **surround** the settlement.

ineffective

adj. not producing any significant or intended effect or result

synonym : useless, feeble, fruitless

(1) an **ineffective** speech, (2) pull an **ineffective** player

These treatments were **ineffective** against a virus.

scope

n. the range of one's perceptions, thoughts, or actions, or a subject that

synonym : content, coverage, extent

(1) **scope** of a project, (2) have broad **scope**

The **scope** of human thought is diverse.

invention

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

synonym : creation, design, innovation

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

Necessity is the mother of **invention**.

biotechnology

n. the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals

synonym : genetic engineering, bioengineering, genetic modification

(1) **biotechnology** research, (2) modern **biotechnology**

Advancements in **biotechnology** have revolutionized medicine and agriculture.

evolve

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

synonym : develop, mature, grow

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

Eyeless fish **evolved** in dark caves.

adapt

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

synonym : adjust, acclimate, accustom

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

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

trace

v. to find or discover someone or something that was lost

synonym : seek, follow, depict

(1) **trace** a telephone call, (2) **trace** back to medieval times

Let's **trace** the origins of some familiar foreign words.

filament

n. a thin wire or thread, especially one used to produce light in an electric bulb

synonym : fiber, thread, filament

(1) **filament** lamp, (2) carbon **filament**

The **filament** in the light bulb burned out, and now it's not working.

gentle

adj. having or showing a kindly or tender nature; soft and mild

synonym : mild, delicate, soft

(1) in a **gentle** voice, (2) **gentle** downward slope
Her **gentle** manner relaxed everyone there.

penetration

n. the act or process of penetrating or entering something, often forcefully or with difficulty; the depth or extent to which something has been entered or understood

synonym: infiltration, entry, invasion

(1) **penetration** testing, (2) market **penetration**

The spy's mission was to gather intelligence on enemy territories through covert **penetration**.

proliferate

v. to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner

synonym: multiply, spread, propagate

(1) **proliferate** cells, (2) **proliferate** weeds

The number of COVID cases continued to **proliferate** in many countries worldwide.

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.

penetrating

adj. able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion

synonym: keen, piercing, sharp

(1) **penetrating** gaze, (2) **penetrating** analysis

The **penetrating** smell of freshly brewed coffee filled the room.

typical

adj. having the usual characteristics or traits of a specific group of things

synonym: characteristic, usual, distinctive

(1) **typical** leader, (2) fairly **typical** symptoms

This artwork is **typical** of her work.

structure

n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

synonym : construction, architecture, establishment

(1) the **structure** of a machine, (2) **structure** and function of the brain

The organizational **structure** of start-ups is often flat and straightforward.

exchange

v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

synonym : trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words

My sister and I frequently **exchange** books, as we love reading.

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.

diagram

n. a simplified illustration of the appearance, structure, or workings of something

synonym : chart, figure, graph

(1) 3D **diagram**, (2) in a **diagram**

He is drawing a **diagram** illustrating how the equipment operates.

recall

v. to remember something

synonym : remember, retrieve, recollect

(1) **recall** the incident, (2) **recall** his name

She vividly **recalls** getting laid off several years ago.

soluble

adj. able to dissolve in a particular substance or solvent; able to be solved or settled

synonym : miscible, dissolvable, liquefiable

(1) **soluble** fiber, (2) water- **soluble** vitamin

The sugar is **soluble** in hot water and dissolves easily.

dissolve

v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

synonym : disband, disappear, liquefy

(1) **dissolve** the sugar, (2) officially **dissolved** the marriage

The political party **dissolved** after much internal fighting.

argument

n. a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute

synonym : debate, discourse, discussion

(1) a blazing **argument**, (2) the **argument** against capital punishment

The **argument** between the two sides over the proposed policy was heated.

sorghum

n. a type of grain grown in tropical countries

(1) **sorghum** grain, (2) seeds of **sorghum**

Sorghum is an important food grain in this country.

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.

dose

n. a quantity or amount of medicine or a drug that is taken or administered at one time, typically measured out in specific units; a similar measure of exposure to a harmful substance or radiation

synonym : portion, amount, measure

(1) **dose** adjustment, (2) daily **dose**

She took the recommended **dose** of medication to treat her headache.

achieve

v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do

synonym : accomplish, attain, reach

(1) **achieve** success, (2) **achieve** milestones

I will work hard to **achieve** my goals and realize my dreams.

soy

n. a legume plant that is widely cultivated for its edible bean, which has many uses, such as for oil, food, and animal feed

(1) **soy** allergy, (2) **soy** milk

Many people use **soy** sauce for sushi, stir-fries, and marinades.

indicate

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

synonym : hint, suggest, show

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

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

rectangle

n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length

synonym : oblong, square, quadrangle

(1) orthogonal **rectangle**, (2) **rectangle** box

The living room had a **rectangle-shaped** coffee table in the center of it.

- plot** *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
synonym : scheme, plan, design
(1) **plot** twist, (2) **plot** a revolution
The **plot** of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.
- diversify** *v.* to make something include more different types or things; to spread out activities or investments
synonym : branch out, expand, broaden
(1) **diversify** my portfolio, (2) **diversify** energy sources
This inclusive environment has allowed the plant species to **diversify**.
- undergo** *v.* to go through something unpleasant or that involves a change
synonym : experience, suffer, endure
(1) **undergo** surgery, (2) **undergo** a decrease
The train has to **undergo** rigorous safety checks.
- 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**.
- industrial** *adj.* of or relating to or resulting from industry
synonym : manufacturing, mechanical
(1) beginning of the **industrial** revolution, (2) **industrial** alcohol
Industrial design has become more focused on human nature aspect than ever before.
- commercialize** *v.* to make something available for sale or use on a large scale

synonym : monetize, capitalize, marketize

(1) **commercialize** my patents, (2) **commercialize** idea
The company is trying to **commercialize** its new product.

alleviate

v. to make something, usually pain, distress, or problem, less severe or intense; to ease or lighten a burden

synonym : ease, relieve, lessen

(1) **alleviate** anxiety, (2) **alleviate** stress

Taking ibuprofen can **alleviate** the pain from a headache.

conclude

v. to come to an end or close; to reach a judgment or opinion by reasoning

synonym : complete, finish, decide

(1) **conclude** a meeting, (2) **conclude** that he is healthy

We **concluded** a cease-fire.

topic

n. a subject that is being discussed or written about

synonym : subject, theme, issue

(1) a serious **topic**, (2) the **topic** of the book

The **topic** of the discussion was the current state of the economy.

retirement

n. the fact or act of stopping working and leaving one's job

synonym : resignation, withdrawal, retreat

(1) **retirement** from politics, (2) impending **retirement**

This fund is responsible for disability and **retirement** benefits.

label

n. a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category

synonym : tag, mark, identifier

(1) a mailing **label**, (2) **label** a bag with my name

The **label** on the food package lists the ingredients and nutritional information.

mad

adj. insane, especially due to a mental illness; very angry

synonym : crazy, insane, furious

(1) a **mad** person, (2) gets **mad** easily

He was **mad** with joy to see the results.

grandchild

n. a child of someone's son or daughter

synonym : offspring, descendant, progeny

(1) **grandchild-grandparent** relationship, (2) **grandchild** development

The grandparents take care of their **grandchild** while the parents are at work.

Session 2: Spelling

1. ion of ca_____m *n.* a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body
2. tr__e back to medieval times *v.* to find or discover someone or something that was lost
3. re___l his name *v.* to remember something
4. re_____e a concert ticket *v.* to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance
5. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
6. the bottomless p_t *n.* a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
7. ill_____te a key point *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
8. pen_____ng gaze *adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion
9. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

ANSWERS: 1. calcium, 2. trace, 3. recall, 4. reserve, 5. evolve, 6. pit, 7. illustrate, 8. penetrating, 9. graph

10. have broad sc__e *n.* the range of one's perceptions, thoughts, or actions, or a subject that
11. re__r to a map *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
12. co____de that he is healthy *v.* to come to an end or close; to reach a judgment or opinion by reasoning
13. me____n in a report *v.* to speak or write about something or someone briefly
14. the crosswise di____on *n.* a measurable extent of a particular kind, such as width, height, or length
15. face inc____gly complicated challenges *adv.* more and more
16. in____ve care *adj.* involving a lot of work or activity in a short time
17. so____m grain *n.* a type of grain grown in tropical countries
18. a ch____al compound *adj.* relating to or connected with chemistry;
19. foods ind____ble to good nutrition *adj.* so good or important that you could not be omitted or remitted; absolutely necessary
20. the p_t of the stomach *n.* a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
21. env____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live

ANSWERS: 10. scope, 11. refer, 12. conclude, 13. mention, 14. dimension, 15. increasingly, 16. intensive, 17. sorghum, 18. chemical, 19. indispensable, 20. pit, 21. environment

22. gets m_d easily *adj.* insane, especially due to a mental illness; very angry
23. the p_k current in the circuit *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain
24. su_nd a town *v.* to be all around something or somebody
25. ad_t as needed *v.* to make fit for or change to suit a new purpose or environment
26. p_t a revolution *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
27. the to_c of the book *n.* a subject that is being discussed or written about
28. 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
29. hyd_ _ _ _ _er energy *n.* electricity generated from the energy of moving water, usually using turbines and dams in rivers or other bodies of water
30. get a con_ _ _ _ _ _ _ _ _ _nal loan *adj.* based on or following traditional rules, standards, customs, etc.
31. al_ _ _ _ _te anxiety *v.* to make something, usually pain, distress, or problem, less severe or intense; to ease or lighten a burden

ANSWERS: 22. mad, 23. peak, 24. surround, 25. adapt, 26. plot, 27. topic, 28. interface, 29. hydropower, 30. conventional, 31. alleviate

32. medical l_b	<i>n.</i> a workplace for the conduct of scientific research; a laboratory
33. spare co_____nts for cars	<i>n.</i> one of several parts that combines with others to form something bigger
34. a par_____al anecdote	<i>adj.</i> seemingly contradictory or absurd because of having two opposite features or facts, though it is probably true
35. the yi__d on the bond	<i>n.</i> the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
36. water-so_____e vitamin	<i>adj.</i> able to dissolve in a particular substance or solvent; able to be solved or settled
37. so_____e fiber	<i>adj.</i> able to dissolve in a particular substance or solvent; able to be solved or settled
38. ge___e downward slope	<i>adj.</i> having or showing a kindly or tender nature; soft and mild
39. blue al__e	<i>n.</i> A simple plant that grows in or near water and lacks typical leaves and roots
40. nonsynthetic fer_____er	<i>n.</i> a natural or chemical substance added to soil to make plants grow more successfully
41. sc__e of a project	<i>n.</i> the range of one's perceptions, thoughts, or actions, or a subject that
42. market pen_____on	<i>n.</i> the act or process of penetrating or entering something, often forcefully or with difficulty; the depth or extent to which something has been entered or understood

ANSWERS: 32. lab, 33. component, 34. paradoxical, 35. yield, 36. soluble, 37. soluble, 38. gentle, 39. algae, 40. fertilizer, 41. scope, 42. penetration

43. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things
44. orthogonal re_____le *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
45. organic agr_____re *n.* the practice or science of cultivating the land or raising stock
46. a bad pr_____nt *n.* a previous event or action that serves as an example or rule to authorize or justify similar events or actions in the future
47. the per_____ve of the battle *n.* a confident attitude toward something; a particular style of thinking about something
48. there is no other alt_____ve *n.* one of two or more available possibilities or choice
49. gi__t tech company *adj.* enormous; much bigger or more important than similar items usually are
50. ty_____l leader *adj.* having the usual characteristics or traits of a specific group of things
51. fi_____nt lamp *n.* a thin wire or thread, especially one used to produce light in an electric bulb
52. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
53. s__ls retentive of moisture *n.* the top layer of Earth in which plants grow
54. un_____o surgery *v.* to go through something unpleasant or that involves a change

ANSWERS: 43. nutrient, 44. rectangle, 45. agriculture, 46. precedent, 47. perspective, 48. alternative, 49. giant, 50. typical, 51. filament, 52. invention, 53. soil, 54. undergo

55. ext_____ary ability *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
56. share of a mu___l fund *adj.* common to or shared by two or more parties
57. re_____le box *n.* a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
58. pull an ine_____ve player *adj.* not producing any significant or intended effect or result
59. pho_____us element *n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element
60. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
61. a ce_____ar phone handset *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
62. il_____al reasoning *adj.* not making sense or not based on sound reasoning
63. agricultural org_____ion *n.* a group of people who work together for a shared purpose
64. wa_____ul habits *adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense

ANSWERS: 55. extraordinary, 56. mutual, 57. rectangle, 58. ineffective, 59. phosphorus, 60. communicate, 61. cellular, 62. illogical, 63. organization, 64. wasteful

65. ac____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
66. a con_____nal style *adj.* based on or following traditional rules, standards, customs, etc.
67. a chemical fer_____er *n.* a natural or chemical substance added to soil to make plants grow more successfully
68. break with pr_____nt *n.* a previous event or action that serves as an example or rule to authorize or justify similar events or actions in the future
69. hyd_____er plant *n.* electricity generated from the energy of moving water, usually using turbines and dams in rivers or other bodies of water
70. re___e after four terms *v.* to withdraw from one's position or occupation, especially because of age
71. harvesting wh__t *n.* a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc
72. 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
73. mu_____om spores *n.* a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap

ANSWERS: 65. achieve, 66. conventional, 67. fertilizer, 68. precedent, 69. hydropower, 70. retire, 71. wheat, 72. launch, 73. mushroom

74. re__r to a book *v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
75. orchid myc_____za *n.* a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis
76. tr__e a telephone call *v.* to find or discover someone or something that was lost
77. di_____fy my portfolio *v.* to make something include more different types or things; to spread out activities or investments
78. heavy ni_____en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
79. wh__t crop *n.* a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc
80. pho_____pid bilayers *n.* a type of lipid that is an essential component of cell membranes, consisting of a phosphate group (= a chemical compound made up of phosphorus and oxygen), glycerol (= a colorless, odorless, sweet-tasting, viscous liquid), and fatty acid chains

ANSWERS: 74. refer, 75. mycorrhiza, 76. trace, 77. diversify, 78. nitrogen, 79. wheat, 80. phospholipid

81. wa____ul practices *adj.* characterized by excessive or unnecessary use or consumption; using resources or materials inefficiently or inappropriately, resulting in unnecessary waste or expense
82. he____ge site *n.* the culture and traditions that are passed down from previous generations
83. cognitive com____ty *n.* the state or quality of being complicated or intricate and difficult to understand
84. chaotic env____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
85. in____te an error *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
86. la__l a bag with my name *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
87. even more unf____ely *adv.* by bad luck; unluckily
88. 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
89. in a di____m *n.* a simplified illustration of the appearance, structure, or workings of something

ANSWERS: 81. wasteful, 82. heritage, 83. complexity, 84. environment, 85. indicate, 86. label, 87. unfortunately, 88. interface, 89. diagram

90. French pa____x *n.* a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;
91. su____e beforehand *v.* to think that something is likely to be actual or possible
92. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
93. synthetic pho_____pid *n.* a type of lipid that is an essential component of cell membranes, consisting of a phosphate group (= a chemical compound made up of phosphorus and oxygen), glycerol (= a colorless, odorless, sweet-tasting, viscous liquid), and fatty acid chains
94. botanical ex____t *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
95. mu___l efforts *adj.* common to or shared by two or more parties
96. di_____fy energy sources *v.* to make something include more different types or things; to spread out activities or investments
97. capital-sc___e country *adj.* not abundant or plentiful, and therefore not easy to find or obtain

ANSWERS: 90. paradox, 91. suppose, 92. structure, 93. phospholipid, 94. extract, 95. mutual, 96. diversify, 97. scarce

98. ill_____te a story *v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
99. re___e voluntarily *v.* to withdraw from one's position or occupation, especially because of age
100. the pa_____x of the heap *n.* a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;
101. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
102. apparently par_____al *adj.* seemingly contradictory or absurd because of having two opposite features or facts, though it is probably true
103. es_____al commodities of life *adj.* indispensable; fundamental
104. pro_____te weeds *v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
105. com_____ize idea *v.* to make something available for sale or use on a large scale
106. unf_____ely caught in a shower *adv.* by bad luck; unluckily
107. mo___n poetry *adj.* of or belonging to the present time or recent times
108. es_____al amino acid *adj.* indispensable; fundamental
109. ex_____ge a few friendly words *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

ANSWERS: 98. illustrate, 99. retire, 100. paradox, 101. communicate, 102.

paradoxical, 103. essential, 104. proliferate, 105. commercialize, 106. unfortunately,
107. modern, 108. essential, 109. exchange

110. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
111. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
112. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
113. ni_____en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
114. small mo_____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
115. in a ge___e voice *adj.* having or showing a kindly or tender nature; soft and mild
116. ad__t fully to the environment *v.* to make fit for or change to suit a new purpose or environment
117. d__e adjustment *n.* a quantity or amount of medicine or a drug that is taken or administered at one time, typically measured out in specific units; a similar measure of exposure to a harmful substance or radiation
118. don't dis_____nt me *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
119. a stone wall su_____nds the palace *v.* to be all around something or somebody

ANSWERS: 110. microscopic, 111. prediction, 112. modern, 113. nitrogen, 114. molecule, 115. gentle, 116. adapt, 117. dose, 118. disappoint, 119. surround

120. yellow pho_____us *n.* a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element
121. s_y milk *n.* a legume plant that is widely cultivated for its edible bean, which has many uses, such as for oil, food, and animal feed
122. il_____al argument *adj.* not making sense or not based on sound reasoning
123. inc_____gly become common *adv.* more and more
124. op_____ze a process *v.* to make the best or most effective use of something
125. sc___e resources *adj.* not abundant or plentiful, and therefore not easy to find or obtain
126. 3D di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
127. a mailing la__l *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
128. ben_____al to all countries *adj.* helpful, useful, or sound; promoting or enhancing well-being
129. nuclear me_____ne *n.* a soft, thin layer that forms animal or vegetable tissue
130. sy_____is establishment *n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all

ANSWERS: 120. phosphorus, 121. soy, 122. illogical, 123. increasingly, 124. optimize, 125. scarce, 126. diagram, 127. label, 128. beneficial, 129. membrane, 130. symbiosis

131. modern bio_____ogy *n.* the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals
132. sl__e a card across the table *v.* to move or cause to move smoothly along a surface without interruption
133. pr_____e analyses *adj.* sharply exact or accurate or delimited
134. dis_____nt the audience *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
135. a pol_____an in the ruling party *n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.
136. en_____er the trust *v.* to make a feeling or situation exist; to cause or give rise to
137. a blazing ar_____nt *n.* a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
138. bio_____ogy research *n.* the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals
139. 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: 131. biotechnology, 132. slide, 133. precise, 134. disappoint, 135. politician, 136. engender, 137. argument, 138. biotechnology, 139. launch

140. in_____ve agriculture *adj.* involving a lot of work or activity in a short time
141. anthropology lab_____ry *n.* a workplace for doing scientific research or teaching science; a lab
142. a brief ex_____t from the book *n.* a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force
143. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
144. impending ret_____nt *n.* the fact or act of stopping working and leaving one's job
145. d_t blot method *n.* a very small circular mark, especially one that is printed
146. s_y allergy *n.* a legume plant that is widely cultivated for its edible bean, which has many uses, such as for oil, food, and animal feed
147. mys_____us stranger *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
148. ind_____al alcohol *adj.* of or relating to or resulting from industry
149. have ge_____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
150. a m_d person *adj.* insane, especially due to a mental illness; very angry

ANSWERS: 140. intensive, 141. laboratory, 142. extract, 143. invention, 144. retirement, 145. dot, 146. soy, 147. mysterious, 148. industrial, 149. genetic, 150. mad

151. a corrupt pol_____an *n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.
152. parched s__l *n.* the top layer of Earth in which plants grow
153. gra_____ld-grandparent relationship *n.* a child of someone's son or daughter
154. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
155. p__t twist *n.* a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal
156. complete no_____ly *adv.* usually; under normal conditions
157. seeds of so_____m *n.* a type of grain grown in tropical countries
158. seems to be highly pro_____ic *adj.* full of difficulties; difficult to deal with or solve
159. de_____e us to meet again *v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome
160. a scholarship ass_____on *n.* a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship

ANSWERS: 151. politician, 152. soil, 153. grandchild, 154. lab, 155. plot, 156. normally, 157. sorghum, 158. problematic, 159. destine, 160. association

161. ro__h estimation *adj.* not quite exact or correct; having or caused by an irregular surface
162. su_____e you're right *v.* to think that something is likely to be actual or possible
163. ext_____ary weather *adj.* exceptional, unexpected, very unusual; surpassing the ordinary or usual
164. ro__h and tough *adj.* not quite exact or correct; having or caused by an irregular surface
165. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
166. di_____s solutions *v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
167. toxic ch_____als *adj.* relating to or connected with chemistry;
168. com_____on of foods on a caloric basis *n.* the consideration or examination of the similarities between two or more people or things
169. ex_____ge rate *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
170. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand

ANSWERS: 161. rough, 162. suppose, 163. extraordinary, 164. rough, 165. molecule, 166. discuss, 167. chemical, 168. comparison, 169. exchange, 170. complexity

171. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
172. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
173. pen_____on testing *n.* the act or process of penetrating or entering something, often forcefully or with difficulty; the depth or extent to which something has been entered or understood
174. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
175. the ar_____nt against capital punishment *n.* a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute
176. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
177. com_____ize my patents *v.* to make something available for sale or use on a large scale
178. co_____de a meeting *v.* to come to an end or close; to reach a judgment or opinion by reasoning
179. al_____te stress *v.* to make something, usually pain, distress, or problem, less severe or intense; to ease or lighten a burden
180. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
181. connecting the d_ts *n.* a very small circular mark, especially one that is printed

ANSWERS: 171. genetic, 172. eventually, 173. penetration, 174. industrial, 175. argument, 176. prediction, 177. commercialize, 178. conclude, 179. alleviate, 180. biology, 181. dot

182. bi_____l production *n.* a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
183. be de_____ed to become a great artist *v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome
184. officially di_____ved the marriage *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
185. an ind_____ble duty *adj.* so good or important that you could not be omitted or remitted; absolutely necessary
186. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
187. financial cr____s *n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
188. key co_____nt *n.* one of several parts that combines with others to form something bigger
189. nu_____nt medicine *n.* any substance that is essential for the maintenance and growth of living things
190. mys_____us object *adj.* difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement

ANSWERS: 182. biofuel, 183. destine, 184. dissolve, 185. indispensable, 186. dimension, 187. crisis, 188. component, 189. nutrient, 190. mysterious

191. bid_____nal communication *adj.* capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions
192. a per_____ve view *n.* a confident attitude toward something; a particular style of thinking about something
193. a serious to__c *n.* a subject that is being discussed or written about
194. re_____e a phone *v.* to take the place of something
195. cell me_____nes *n.* a soft, thin layer that forms animal or vegetable tissue
196. pen_____ng analysis *adj.* able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion
197. a ben_____al result *adj.* helpful, useful, or sound; promoting or enhancing well-being
198. me_____n name *v.* to speak or write about something or someone briefly
199. myc_____za fungi *n.* a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis
200. at p__k hour *n.* the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

ANSWERS: 191. bidirectional, 192. perspective, 193. topic, 194. replace, 195. membrane, 196. penetrating, 197. beneficial, 198. mention, 199. mycorrhiza, 200. peak

201. word ass_____ons *n.* a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship
202. re___l the incident *v.* to remember something
203. estimate pr_____e costs *adj.* sharply exact or accurate or delimited
204. di_____ve the sugar *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
205. op_____ze control for cooling *v.* to make the best or most effective use of something
206. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
207. a pro_____ic situation *adj.* full of difficulties; difficult to deal with or solve
208. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
209. al___e biofuel *n.* A simple plant that grows in or near water and lacks typical leaves and roots
210. ret_____nt from politics *n.* the fact or act of stopping working and leaving one's job
211. cr___s management *n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
212. in_____te a preference *v.* to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly

ANSWERS: 201. association, 202. recall, 203. precise, 204. dissolve, 205. optimize, 206. microscopic, 207. problematic, 208. eventually, 209. algae, 210. retirement, 211. crisis, 212. indicate

213. en____er a crisis *v.* to make a feeling or situation exist; to cause or give rise to
214. ce____ar and molecular biology *adj.* of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
215. un____o a decrease *v.* to go through something unpleasant or that involves a change
216. fa____te the young *v.* to attract and hold the attention of someone deeply and irresistibly
217. bid____nal street *adj.* capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions
218. lab____ry accident *n.* a workplace for doing scientific research or teaching science; a lab
219. ac____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
220. carbon fi____nt *n.* a thin wire or thread, especially one used to produce light in an electric bulb
221. re____e the right *v.* to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance
222. intensive agr____re *n.* the practice or science of cultivating the land or raising stock

ANSWERS: 213. engender, 214. cellular, 215. undergo, 216. fascinate, 217. bidirectional, 218. laboratory, 219. achieve, 220. filament, 221. reserve, 222. agriculture

223. industrial sy_____is *n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all
224. fairly ty_____l symptoms *adj.* having the usual characteristics or traits of a specific group of things
225. sl__e a glance *v.* to move or cause to move smoothly along a surface without interruption
226. daily d__e *n.* a quantity or amount of medicine or a drug that is taken or administered at one time, typically measured out in specific units; a similar measure of exposure to a harmful substance or radiation
227. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
228. org_____ion chart *n.* a group of people who work together for a shared purpose
229. gi__t trees *adj.* enormous; much bigger or more important than similar items usually are
230. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
231. pro_____te cells *v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner

ANSWERS: 223. symbiosis, 224. typical, 225. slide, 226. dose, 227. graph, 228. organization, 229. giant, 230. structure, 231. proliferate

232. the characters that re_____nt numbers
v. to speak, act, or be present on behalf of another person or group; to form or constitute
233. mu_____om cultivation
n. a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap
234. ease of com_____on
n. the consideration or examination of the similarities between two or more people or things
235. not no_____ly drink much
adv. usually; under normal conditions
236. re_____e one word with another
v. to take the place of something
237. ca_____m deficiency
n. a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body
238. evolutionary bi_____y
n. the scientific study of life and the natural processes of living things
239. gra_____ld development
n. a child of someone's son or daughter
240. an ine_____ve speech
adj. not producing any significant or intended effect or result
241. fa_____te the public
v. to attract and hold the attention of someone deeply and irresistibly
242. corn yi__d
n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
243. re_____nt by a diagram
v. to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 232. represent, 233. mushroom, 234. comparison, 235. normally, 236. replace, 237. calcium, 238. biology, 239. grandchild, 240. ineffective, 241. fascinate, 242. yield, 243. represent

Session 3: Fill in the Blanks

1. She took the recommended _____ of medication to treat her headache.
n. a quantity or amount of medicine or a drug that is taken or administered at one time, typically measured out in specific units; a similar measure of exposure to a harmful substance or radiation
2. She is very _____ in her thoughts.
adj. based on or following traditional rules, standards, customs, etc.
3. The treatments were done but, _____ were unsuccessful.
adv. by bad luck; unluckily
4. 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
5. 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
6. 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
7. The construction industry is labor _____ although it has been somewhat automated by introducing large machinery.
adj. involving a lot of work or activity in a short time

ANSWERS: 1. dose, 2. conventional, 3. unfortunately, 4. represent, 5. launch, 6. component, 7. intensive,

8. The firm has grown into a large _____ manufacturing.

adj. relating to or connected with chemistry;

9. On three sides, mountains _____ the settlement.

v. to be all around something or somebody

10. Advancements in _____ have revolutionized medicine and agriculture.

n. the application of technological processes and methods to biological systems to develop new products or techniques, such as genetically modified organisms or biopharmaceuticals

11. it is _____ that the French, who prefer animal foods, live longer than people in other countries.

adj. seemingly contradictory or absurd because of having two opposite features or facts, though it is probably true

12. The _____ between the two sides over the proposed policy was heated.

n. a set of statements or reasons used to support or refute a proposition or theory; a verbal or physical fight or dispute

13. She vividly _____ getting laid off several years ago.

v. to remember something

14. _____ design has become more focused on human nature aspect than ever before.

adj. of or relating to or resulting from industry

15. Buying new clothes every week is a _____ use of money and resources.

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

ANSWERS: 8. chemical, 9. surround, 10. biotechnology, 11. paradoxical, 12. argument, 13. recalls, 14. Industrial, 15. wasteful

16. His membership in the _____ provided him with numerous benefits.
n. a people or groups of people who have joined in a single organization together for a particular purpose; a social or business connection or relationship
17. The sugar is _____ in hot water and dissolves easily.
adj. able to dissolve in a particular substance or solvent; able to be solved or settled
18. 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
19. _____ has jammed the inlet to the water turbine.
n. A simple plant that grows in or near water and lacks typical leaves and roots
20. Overall _____ are approximately 400x200mm.
n. a measurable extent of a particular kind, such as width, height, or length
21. Her _____ manner relaxed everyone there.
adj. having or showing a kindly or tender nature; soft and mild
22. Doctors are gradually coming around to the idea of using _____ medicines.
n. one of two or more available possibilities or choice
23. These results muddied the _____.
n. the act of predicting the future by reasoning; a statement made about the future
24. My sister and I frequently _____ books, as we love reading.
v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

ANSWERS: 16. association, 17. soluble, 18. crisis, 19. Algae, 20. dimensions, 21. gentle, 22. alternative, 23. prediction, 24. exchange

25. 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
26. He narrated the _____ story of his adventure.
adj. exceptional, unexpected, very unusual; surpassing the ordinary or usual
27. He was ___ with joy to see the results.
adj. insane, especially due to a mental illness; very angry
28. Some studies have shown that plants grown in soil with a high population of _____ fungi are more resistant to drought and disease.
n. a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis
29. These treatments were _____ against a virus.
adj. not producing any significant or intended effect or result
30. I will work hard to _____ my goals and realize my dreams.
v. to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
31. The _____ risotto was delicious, but I couldn't identify all the mushrooms in it.
n. a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap
32. The farmer grew _____ on his land.
n. a cereal plant that is the most important kind grown in temperate countries, the grain of which is ground to make flour for bread, pasta, pastry, etc

ANSWERS: 25. interface, 26. extraordinary, 27. mad, 28. mycorrhizal, 29. ineffective, 30. achieve, 31. mushroom, 32. wheat

33. Liposomes are microscopic vesicles made up of _____ used in drug delivery systems.
- n.* a type of lipid that is an essential component of cell membranes, consisting of a phosphate group (= a chemical compound made up of phosphorus and oxygen), glycerol (= a colorless, odorless, sweet-tasting, viscous liquid), and fatty acid chains
34. The corporation _____ dominated the entire tobacco business.
- adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
35. Their headquarters are in a _____ skyscraper.
- adj.* of or belonging to the present time or recent times
36. The _____ on the food package lists the ingredients and nutritional information.
- n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
37. Let's _____ the origins of some familiar foreign words.
- v.* to find or discover someone or something that was lost
38. The company is trying to _____ its new product.
- v.* to make something available for sale or use on a large scale
39. Many people use _____ sauce for sushi, stir-fries, and marinades.
- n.* a legume plant that is widely cultivated for its edible bean, which has many uses, such as for oil, food, and animal feed
40. She is the president of a large international _____.
- n.* a group of people who work together for a shared purpose

ANSWERS: 33. phospholipids, 34. eventually, 35. modern, 36. label, 37. trace, 38. commercialize, 39. soy, 40. organization

41. Fresh water is becoming increasingly _____ in many parts of the world.

adj. not abundant or plentiful, and therefore not easy to find or obtain

42. This artwork is _____ of her work.

adj. having the usual characteristics or traits of a specific group of things

43. _____ is the foundation of our economy.

n. the practice or science of cultivating the land or raising stock

44. What do you _____ the culprit's motive was?

v. to think that something is likely to be actual or possible

45. The magic tricks _____ the children.

v. to attract and hold the attention of someone deeply and irresistibly

46. The _____ of the novel centers around a group of friends who uncover a conspiracy to control the world's water supply.

n. a secret plan or scheme to achieve a specific goal; the plan or main story of a literary work; (verb) to plan secretly, usually something illegal

47. The _____ lost his position in the end due to the scandal.

n. a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.

48. After working for the company for 30 years, she decided to _____ from her job.

v. to withdraw from one's position or occupation, especially because of age

49. The discussion about war helps _____ a sense of shared humanity.

v. to make a feeling or situation exist; to cause or give rise to

ANSWERS: 41. scarce, 42. typical, 43. Agriculture, 44. suppose, 45. fascinated, 46. plot, 47. politician, 48. retire, 49. engender

50. The _____ of the discussion was the current state of the economy.
n. a subject that is being discussed or written about
51. _____ compounds are commonly used to manufacture fertilizers to promote plant growth.
n. a chemical element with the symbol P and atomic number 15 that is a non-metallic, highly reactive, and luminescent element
52. The company's stock gives a high _____.
n. the total output of crops, profits, etc. that are produced; (verb) to produce or supply helpful something, such as a profit, an amount of food, or information
53. Our company found it _____ difficult to keep up with the competition.
adv. more and more
54. Eventually, the new design will _____ all older models.
v. to take the place of something
55. They cooperated for their _____ benefit.
adj. common to or shared by two or more parties
56. She worked very hard not to _____ her boss's expectations.
v. to fail to meet someone or their hopes or expectations; to make someone feel sad
57. _____ is an important food grain in this country.
n. a type of grain grown in tropical countries
58. The organizational _____ of start-ups is often flat and straightforward.
n. the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

ANSWERS: 50. topic, 51. Phosphorus, 52. yield, 53. increasingly, 54. replace, 55. mutual, 56. disappoint, 57. Sorghum, 58. structure

59. _____ gas is used to inflate car tires because it does not react with rubber.
- n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
60. They used fast-acting _____ on the flowers in the flower beds.
- n.* any substance that is essential for the maintenance and growth of living things
61. The company's financial records _____ how successful it has been.
- v.* to provide pictures, photographs, diagrams, etc. in a book or something for explanation
62. 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
63. Dolphins use sound to _____ with each other.
- v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
64. Some people believe that we are all _____ for greatness.
- v.* to determine or set the course of something in advance, often in a way that seems predetermined or inevitable; to specify or choose someone or something for a particular fate or outcome
65. Loud noises might harm the fragile ear _____.
- n.* a soft, thin layer that forms animal or vegetable tissue
66. This bar _____ shows sales over the past five years.
- n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

ANSWERS: 59. Nitrogen, 60. nutrients, 61. illustrate, 62. mentioned, 63. communicate, 64. destined, 65. membrane, 66. graph

67. Inspectors noticed _____ cracks in the submarine's hull.

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

68. The vehicle bounced along the _____ mountain road.

adj. not quite exact or correct; having or caused by an irregular surface

69. You can easily _____ seats over the telephone.

v. to keep something for future use or contingency; to obtain or arrange something, such as a meeting, seat, etc., in advance

70. The grandparents take care of their _____ while the parents are at work.

n. a child of someone's son or daughter

71. I've included the two designs for a _____.

n. the consideration or examination of the similarities between two or more people or things

72. The _____ smell of freshly brewed coffee filled the room.

adj. able to pierce or enter deeply into something; having a sharp, intense quality that cuts through superficiality or confusion

73. The _____ flow of information allows for efficient communication between the two departments.

adj. capable of functioning or moving in two opposite directions; involving or allowing communication or transmission in two opposite directions

74. Trial and error is an _____ part of education.

adj. indispensable; fundamental

ANSWERS: 67. microscopic, 68. rough, 69. reserve, 70. grandchild, 71. comparison, 72. penetrating, 73. bidirectional, 74. essential

75. The living room had a _____ coffee table in the center of it.
n. a four-sided geometric shape with four right angles, where opposite sides are parallel and of equal length
76. The essence of economics is to _____ the allocation of limited resources.
v. to make the best or most effective use of something
77. If necessary, you can _____ the front seats forward.
v. to move or cause to move smoothly along a surface without interruption
78. The political party _____ after much internal fighting.
v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
79. The _____ jets gradually dominate the world's airlines.
adj. enormous; much bigger or more important than similar items usually are
80. Taking ibuprofen can _____ the pain from a headache.
v. to make something, usually pain, distress, or problem, less severe or intense; to ease or lighten a burden
81. The data _____ that the company's profits have steadily increased over the past quarter.
v. to show, point out, or make known something, often through a sign or a symbol; to suggest or imply something without stating it directly
82. Understanding protein folding is a vital step in deciphering the _____ code.
adj. of or relating to genes (= parts of the DNA in cells) or the science of genes

ANSWERS: 75. rectangle-shaped, 76. optimize, 77. slide, 78. dissolved, 79. giant, 80. alleviate, 81. indicates, 82. genetic

83. The _____ disappearance of the ship remains unsolved.
adj. difficult to understand, explain, or identify; having an aura of secrecy, intrigue, or puzzlement
84. The ____ of the avocado can be removed by gently wedging a spoon around it.
n. a hole in the ground or a cavity in a surface; a place for storing or holding something; a section of a theater or sports arena where people can sit
85. The airplane was powered by a _____ made from plant-based materials.
n. a fuel produced from organic matter, such as crops or waste material, that can be used to replace or supplement traditional fossil fuels
86. His father's death changed his whole _____ on life.
n. a confident attitude toward something; a particular style of thinking about something
87. The _____ in the light bulb burned out, and now it's not working.
n. a thin wire or thread, especially one used to produce light in an electric bulb
88. Necessity is the mother of _____.
n. the creation of a new device or process resulting from study and experimentation; the act of inventing
89. We _____ a cease-fire.
v. to come to an end or close; to reach a judgment or opinion by reasoning
90. Eyeless fish _____ in dark caves.
v. to develop gradually, or to cause the development of something or someone gradually

ANSWERS: 83. mysterious, 84. pit, 85. biofuel, 86. perspective, 87. filament, 88. invention, 89. concluded, 90. evolved

91. In junior high school, we had to dissect a frog in _____ class.
n. the scientific study of life and the natural processes of living things
92. The court used previous _____ to make its decision.
n. a previous event or action that serves as an example or rule to authorize or justify similar events or actions in the future
93. His argument made no sense and was completely _____.
adj. not making sense or not based on sound reasoning
94. Direct democracy is effective in quickly resolving _____ situations within a community.
adj. full of difficulties; difficult to deal with or solve
95. The train has to _____ rigorous safety checks.
v. to go through something unpleasant or that involves a change
96. This factory employs a _____ manufacturing system.
adj. of or connected with the cells of animals or plants; of or connected with a mobile telephone system that uses several short-range radio stations instead of wires
97. The shape of the DNA _____ is a double helix.
n. a group of two or more atoms held together by attractive forces known as chemical bonds
98. Anesthetize the gum before _____ the teeth.
n. a short passage taken from a book, piece of music, etc.; a substance obtained from something through a specific process; (verb) to obtain from something or to remove something by effort or force

ANSWERS: 91. biology, 92. precedents, 93. illogical, 94. problematic, 95. undergo, 96. cellular, 97. molecule, 98. extracting

99. There are many theories to explain this _____.
- n.* a statement, situation, or person that has two opposite facts or features and therefore seems impossible, is difficult to understand, or is strange;
100. _____ moisture is another significant component controlling soil respiration.
- n.* the top layer of Earth in which plants grow
101. She is _____ to our team.
- adj.* so good or important that you could not be omitted or remitted; absolutely necessary
102. He is drawing a _____ illustrating how the equipment operates.
- n.* a simplified illustration of the appearance, structure, or workings of something
103. We need to _____ the next steps for the project during our meeting tomorrow.
- v.* to talk about or examine in detail through conversation or debate; to exchange ideas, opinions, or information on a particular topic
104. This fund is responsible for disability and _____ benefits.
- n.* the fact or act of stopping working and leaving one's job
105. The _____ between the coral and the algae is an important example of mutualism.
- n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all
106. This inclusive environment has allowed the plant species to _____.
- v.* to make something include more different types or things; to spread out activities or investments

ANSWERS: 99. paradox, 100. Soil, 101. indispensable, 102. diagram, 103. discuss, 104. retirement, 105. symbiosis, 106. diversify

107. The number of COVID cases continued to _____ in many countries worldwide.
- v.* to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
108. The spy's mission was to gather intelligence on enemy territories through covert _____.
- n.* the act or process of penetrating or entering something, often forcefully or with difficulty; the depth or extent to which something has been entered or understood
109. The _____ of the city is reflected in its architecture.
- n.* the culture and traditions that are passed down from previous generations
110. The patient was prescribed a _____ supplement to help prevent osteoporosis.
- n.* a chemical element with the symbol Ca and atomic number 20, which is an important mineral for the human body
111. Please _____ to the instruction manual for further assistance.
- v.* to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support
112. The _____ of human thought is diverse.
- n.* the range of one's perceptions, thoughts, or actions, or a subject that
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. Many countries around the world have built dams to harness the power of _____ for their energy needs.
- n.* electricity generated from the energy of moving water, usually using turbines and dams in rivers or other bodies of water

ANSWERS: 107. proliferate, 108. penetration, 109. heritage, 110. calcium, 111. refer, 112. scope, 113. lab, 114. hydropower

115. I don't _____ take a vacation in the middle of summer.

adv. usually; under normal conditions

116. Laughing is _____ to our health.

adj. helpful, useful, or sound; promoting or enhancing well-being

117. Nitrogen fixation by the Haber-Bosch method leads to the mass production of _____.

n. a natural or chemical substance added to soil to make plants grow more successfully

118. 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

119. The wallpaper had a pattern of pink _____ on a white surface.

n. a very small circular mark, especially one that is printed

120. I advised him to _____ to his new surroundings.

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

121. Animal protection groups call for an end to animal testing in a _____.

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

122. This measurement aims to reduce traffic at _____ periods.

n. the point to which something or someone is at its strongest, best, or most successful; the pointed top of a mountain

123. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

ANSWERS: 115. normally, 116. beneficial, 117. fertilizers, 118. complexity, 119. dots, 120. adapt, 121. laboratory, 122. peak, 123. precise

124. 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

ANSWERS: 124. environment