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Sims Witherspoon: Can AI help solve the climate crisis? | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

instruction

n. detailed direction, order, etc., on how to do or use something

synonym: education, direction, guidance

(1) individual **instruction**, (2) follow his **instructions**

They needed further **instruction** to perform their duties efficiently.

assemble

v. to collect in one place as a single group

synonym: gather, congregate, collect

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

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

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.

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.

assembly

n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country

synonym : crowd, gathering, mass

(1) **assembly** line, (2) **assembly** hall

This company's **assembly** plant is an enormous facility.

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.

chef

n. a cook, especially the chief cook in a restaurant or hotel

synonym : cook, culinary artist, gastronomer

(1) **chef** knife, (2) master **chef**

The **chef** at the restaurant was known for his creative and delicious dishes.

separate

v. to force, take, or pull apart; mark as different

synonym : disunite, isolate, ramify

(1) **separate** video into chapter, (2) **separate** cream from milk

We need to **separate** the aspect of his personality from the part of his competence when making an investment decision.

useless

adj. not serving any useful purpose; having no practical result

synonym : ineffectual, unhelpful, worthless

(1) **useless** information, (2) **useless** in the kitchen
The old, rusty tools were now **useless** and had to be thrown away.

climate

n. the weather in a particular location averaged over some long period

synonym: atmosphere, weather, environment

(1) a cold **climate**, (2) effects of **climate** change

Climate and weather have an impact on every part of our lifestyles.

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.

renewable

adj. capable of being renewed, extended, or replaced

synonym: sustainable, replaceable

(1) **renewable** energy, (2) **renewable** subscriptions

The production of **renewable** fuels requires massive volumes of fresh water.

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.

deploy

v. to move troops or weapons into a position or military action; to bring into something in an effective way

synonym: set up, expand, launch

(1) **deploy** troops for battle, (2) **deploy** safety measures
This country **deployed** its weapons in the east region.

equitable

adj. fair and impartial; treating everyone fairly

synonym : fair, honest, impartial

(1) in an **equitable** manner, (2) an **equitable** price

In a democratic country, governments promote **equitable** opportunities to participate in society.

feasible

adj. capable of being or likely to be made, done, or achieved

synonym : achievable, possible, attainable

(1) economically **feasible**, (2) **feasible** assumption

It is not **feasible** and inefficient to complete many tasks at once.

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.

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.

regulatory

adj. having the power to control or restrict something such as business or industry according to rules or principles

synonym : regulative, managerial

(1) **regulatory** cells, (2) compliance with **regulatory** requirements

In the past, Japanese banks were protected by **regulatory** control.

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**.

dependent

adj. relying on someone or something else for support or aid

synonym: reliant, subject, subordinate

(1) dose- **dependent** induction, (2) a **dependent** person

The small island nation is heavily **dependent** on tourism as its main source of income.

constraint

n. a limit or restriction on something, such as an action, behavior, or thought

synonym: limitation, restriction, bound

(1) **constraint** on business activity, (2) strict time

constraints

The budget **constraint** forced them to make difficult decisions.

definition

n. a concise explanation of the meaning of a word, phrase, or symbol

synonym: description, connotation, meaning

(1) a precise **definition**, (2) the **definition** of a word

Parallel lines are, by **definition**, lines on the same plane that never cross.

sociopolitical

adj. relating to both social and political aspects of society; having to do with how politics and social issues are interconnected or influence each other

synonym: social, political, community-based

(1) **sociopolitical** issues, (2) **sociopolitical** unrest

The **sociopolitical** climate of the country has led to a rise in protests and demonstrations.

economy

n. the system by which a country or region produces, manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

synonym: finance, trade, business

(1) **economy** of scale, (2) **economy** class

The **economy** of the country is struggling due to the recent political instability.

frame

n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

synonym: body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

techno

n. a style of electronic dance music that originated in Detroit in the 1980s and is characterized by a repetitive, synthesized beat and minimalist sound effects; the use of advanced technology or techniques in a particular field

(1) **techno** beat, (2) **techno** festival

The club's playlist featured a lot of **techno** music.

optimist

n. a person who tends to expect the best in all things and to be hopeful and confident about the future

synonym: positive thinker, dreamer, idealist

(1) **optimist** by nature, (2) excessive **optimist**

She is a confident **optimist** who always looks on the bright side.

AI

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

synonym: robot, machine learning, neural network

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

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

technological

adj. based on scientific and industrial progress

synonym : specialized, technical

(1) **technological** advancement, (2) **technological** policy
Technological advances have disrupted many industries.

sustainable

adj. able to continue or be continued for a long time

synonym : continuable, enduring, tolerable

(1) **sustainable** alternative fuel, (2) principles of **sustainable** development

The government should do more to support environmentally **sustainable** agriculture.

artificial

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

synonym : synthetic, man-made, manufactured

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

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

intelligence

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

synonym : brains, brightness, cleverness

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

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

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**.

ecosystem

n. all the plants and living creatures in an area and the way they affect each other and the environment

(1) marine **ecosystem**, (2) change the **ecosystem**

Human conservation efforts often fail unexpectedly because they disturb the balance of the **ecosystem**.

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.

scratch

v. to cut or damage the surface of something or the skin with a sharp or pointed object

synonym: claw, rub, scrape

(1) **scratch** off a name, (2) **scratch** my signature

Don't **scratch** your mosquito bites.

accelerate

v. to make something faster or earlier; to cause to develop or progress more quickly

synonym: speed up, quicken, rev

(1) **accelerate** a chemical reaction, (2) **accelerate** the car

The government tried to **accelerate** the commercialization of this development.

breakthrough

n. a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

synonym: advance, progress, innovation

(1) **breakthrough** in the negotiations, (2) **breakthrough** discovery

A technique called deep learning has led to **breakthroughs** in AI.

fusion

n. the process of combining two or more things to form a single entity

synonym: merger, consolidation, amalgamation

(1) heat **fusion**, (2) **fusion** cuisine

Nuclear **fusion** is a process in which atomic nuclei combine to form heavier nuclei.

carbon

n. a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

(1) **carbon** dioxide, (2) **carbon** emission

Trees absorb **carbon** dioxide and give off oxygen.

specifically

adv. only associated with or meant for one thing

synonym: especially, particularly, notably

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

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

harness

v. to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

synonym: rein in, control, (noun) belt

(1) **harness** a horse to a carriage, (2) put a **harness** on my pet

People have been exploring ways to **harness** natural forces and resources since ancient times.

superpower

n. a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities

synonym: great power, empire, hegemony

(1) **superpower** country, (2) **superpower** leader

The ability to fly like a bird is often considered a **superpower** in comic books and movies.

unquestionably

adv. without a doubt; certainly

synonym : certainly, undoubtedly, without doubt

(1) **unquestionably** bad, (2) **unquestionably** safe

Unquestionably, he was the best candidate for the job.

unpredictable

adj. not capable of being foreseen or calculated; not regular or certain

synonym : uncertain, variable, random

(1) dangerously **unpredictable** person, (2) **unpredictable** outcome

The weather in this region is often **unpredictable**, with sudden rainstorms and strong winds.

shin

n. the front part of the leg below the knee

synonym : tibia, lower leg, front leg

(1) **shin** guard, (2) **shin** injury

The pain in his **shin** made it hard for him to walk.

operator

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

synonym : controller, handler, manipulator

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

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

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.

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.

reliable

adj. worthy of being relied on; trustworthy

synonym: dependable, trustworthy, dedicated

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

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

schedule

n. a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done

synonym: agenda, program, itinerary

(1) a heavy **schedule**, (2) arrange my **schedule**

So far, the meeting is going according to **schedule**.

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.

fossil

n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock

synonym: relic, remnant, antediluvian

(1) burning of **fossil** fuels, (2) a **fossil** leaf

It was the **fossil** of a dinosaur tooth.

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

opposition

n. the act of disagreeing or resisting; the state of strong disagreement

synonym: resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**

The **opposition** party strongly disagreed with the government's proposed legislation.

specific

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

synonym: particular, definite, distinct

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

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

coal

n. a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat

synonym: ember

(1) a **coal-fired** ship, (2) construction of new **coal** plants

We combust **coal** and other fossil fuels to generate electricity.

predictable

adj. capable of being known, seen or declared in advance

synonym: foreseeable, expectable, likely

(1) **predictable** pattern, (2) in a **predictable** manner

The economy becomes more volatile and less **predictable**.

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.

confident

adj. feeling sure about your abilities or qualities or having trust in people, plans, or the future

synonym : certain, sure, convinced

(1) feel **confident**, (2) a **confident** remark

I'm not **confident** in our victory.

forecast

n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance

synonym : prediction, outlook, (verb) guess

(1) a weather **forecast**, (2) **forecast** an epidemic

Their team specializes in demand **forecasts** for our products.

ingest

v. to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

synonym : swallow, consume, devour

(1) **ingest** food, (2) **ingest** medication

People who compulsively **ingest** non-food items, such as dirt or chalk, suffer from a condition called pica.

vast

adj. enormous in size, number, amount, or quantity

synonym : expansive, extended, boundless

(1) **vast** majority, (2) **vast** desert

A **vast** audience viewed the broadcast.

historic

adj. famous or significant in history, or potentially so

synonym : memorable, momentous, historical

(1) **historic** accomplishment, (2) achieve the **historic** feat

The Chinese people have accomplished several **historic** feats.

predict

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

synonym : forecast, anticipate, foresee

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

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

eliminate

v. to remove or get rid of someone or something

synonym : wipe out, destroy, eradicate

(1) **eliminate** contestants, (2) **eliminate** sexual barriers

We can **eliminate** this possibility from those consumptions.

variability

n. the fact or quality of something being likely to vary

synonym : variance, unevenness, inconstancy

(1) natural **variability**, (2) climate **variability**

There is considerable **variability** in all the test scores.

accurate

adj. correct and exact in all details

synonym : exact, precise, proper

(1) provide **accurate** information, (2) **accurate** measurements

The official transcript contains **accurate** academic records.

avail

v. to help or benefit; to use or take advantage of

synonym : help, benefit, serve

(1) **avail** you little, (2) **avail** ourselves of this opportunity

Their financing options are reasonable and easy to **avail**.

domain

n. a specific sphere of influence or control; a specific field of knowledge or expertise

synonym : territory, realm, sphere

(1) **domain** of use, (2) a dependent **domain**

The company's **domain** in the market was expanding to new territories.

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.

analyst

n. someone whose job is to examine something to learn or understand more about it

synonym :

reviewer, investigator, judge

(1) banking **analyst**, (2) senior research **analyst**

The **analyst** concluded that bankruptcy was inevitable.

decide

v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

synonym: choose, determine, settle

(1) **decide** a question, (2) **decide** on a course of action

She couldn't **decide** whether to order the pizza or the pasta for dinner.

neural

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

synonym: sensory, neuron, nervous

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

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

turbine

n. a machine that rotates to generate power from fluids such as water or gas

synonym: engine, generator, power plant

(1) **turbine** energy, (2) **turbine** aerofoil

The wind **turbines** were spinning rapidly, generating clean energy for the nearby town.

accomplish

v. to finish or achieve something successfully

synonym: achieve, complete, execute

(1) **accomplish** a goal, (2) **accomplish** military operations

Humankind took centuries to **accomplish** true democracy.

core

n. the most essential or fundamental part of something

synonym: center, basis, heart

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

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

element

n. a fundamental or essential part of something

synonym: component, feature, essence

(1) new design **elements**, (2) nonmetallic **elements**

Natural selection is an essential **element** in Darwin's theory of evolution.

obstacle

n. a thing that blocks one's way or prevents or hinders progress

synonym: hindrance, barrier, block

(1) an **obstacle** to progress, (2) **obstacle** avoidance

The **obstacle** course was challenging but fun.

scenario

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

synonym: plan, scheme, procedure

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

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

massive

adj. enormous amount; very heavy and solid

synonym: enormous, giant, immense

(1) **massive** amounts, (2) **massive** stars

The recent economic downturn has resulted in **massive** layoffs.

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**.

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.

transport

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

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

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

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

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

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

sector

n. a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity

synonym: division, department, branch

(1) industrial **sector**, (2) private **sector**

The technology **sector** is constantly evolving and innovating.

download

v. to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device

synonym: load, save, transfer

(1) **download** files from the Internet, (2) **download** the assignment from the website

I need to **download** the latest update for my computer's operating system.

instance

n. a particular example or single occurrence of something

synonym: example, sample, illustration

(1) for **instance**, (2) notable **instance**

These articles cite five **instances** of climate change.

proprietor

n. a person who owns and runs a business, especially a hotel, a shop, or a company

synonym: owner, keeper, possessor

(1) **proprietor** of a business, (2) copyright **proprietor**
The **proprietor** of the small bakery was always friendly and welcoming.

operational

adj. relating to a particular process or series of actions for achieving a result

synonym: functional, active, working

(1) introduce **operational** software, (2) build **operational** excellence

The machine should be **operational** by Friday afternoon.

relation

n. the way two persons or groups of people feel and act toward one another

synonym: association, linkage, connection

(1) **relation** between cause and effect, (2) **relation** of inclusion

The industrial **relations** laws were passed with little to no alteration.

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**.

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.

resolution

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

synonym: determination, decision, settlement

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

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

timescale

n. a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process

synonym: time frame, schedule, duration

(1) long- **timescale**, (2) realistic **timescale**

The **timescale** for completing the construction project is three years.

climactic

adj. relating to the highest point of a story or event, typically the most intense or exciting moment; bringing something to a high point or conclusion

synonym: pivotal, critical, decisive

(1) **climactic** chapter, (2) **climactic** moment

The **climactic** battle scene was the most intense moment of the movie.

differ

v. to be not like someone or something in some way

synonym: vary, diverge, disagree

(1) **differ** from the majority, (2) **differ** according to species

The two products **differed** in their quality and price.

addition

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

synonym: accumulation, expansion, addendum

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

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

expertise

n. specialized knowledge or skills in a particular field or subject; expert proficiency or knowledge

synonym: knowledge, skill, mastery

(1) marketing **expertise**, (2) demonstrate **expertise**

The company's success can be attributed to the **expertise** of its employees.

willingness

n. the state of being ready or inclined to do something

synonym: readiness, eagerness, enthusiasm

(1) **willingness** to help, (2) indicate a **willingness** to change

Her **willingness** to help others earned her many friends.

surprisingly

adv. in a way that causes amazement or wonder

synonym: exceptionally, notably, unusually

(1) **surprisingly** advanced culture, (2) have **surprisingly** little effect

The exam was **surprisingly** tricky for everyone.

hurdle

n. a barrier or obstacle that must be overcome

synonym: obstacle, barrier, challenge

(1) overcome **hurdles**, (2) **hurdle** race

The company faced several **hurdles** in the development of its new product.

bunch

n. a grouping of several similar things which are growing or fastened together

synonym: group, assemblage, bundle

(1) a **bunch** of trees, (2) a **bunch** of schoolgirls

One bad apple spoils the whole **bunch**.

opportune

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

synonym: suitable, timely, practical

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

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

watt

n. a standard unit for measuring electrical power

(1) 30- **watt** light bulb, (2) **watt** per square meter

Several hectares of land are needed to generate more than

1-mega **watt** solar power.

equivalent

n. having the same value, quality, meaning, purpose, etc.
synonym : equal, counterpart, match

(1) **equivalent** amounts, (2) **equivalent** in meaning
The European Central Bank is Europe's **equivalent** of the Federal Reserve.

statistics

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

(1) **statistics** for cancer, (2) official **statistics**
The **statistics** demonstrate that poverty and unemployment are genuine problems.

proxy

n. a person or entity that is authorized to act on behalf of another person or entity

synonym : surrogate, representative, agent

(1) healthcare **proxy**, (2) **proxy** server
She voted by **proxy** because she was unable to attend in person.

external

adj. belonging to or situated outside of someone or something

synonym : outside, exterior, foreign

(1) **external** factors, (2) **external** commerce
When a company discloses information to the market, an **external** auditor verifies them.

metric

adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic

synonym : metrical, measured

(1) **metric** units, (2) key performance **metrics**
In the **metric** system, measurements are made in meters and liters.

benchmark

n. a standard or reference point used for comparison or evaluation; a point of reference for measuring progress or performance

synonym : standard, measure, gauge

(1) industry **benchmark**, (2) performance **benchmark**

The teacher used a **benchmark** to measure the progress of her students.

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.

quantifiable

adj. able to be measured, expressed, or quantified in numerical or statistical terms

synonym : measurable, calculable

(1) non- **quantifiable** risk, (2) **quantifiable** results

The impact of the new policy will be **quantifiable** through measurable data.

improvisation

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

synonym : spontaneity, ad-lib, extemporization

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

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

accuracy

n. the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake

synonym : precision, exactness, truthfulness

(1) degree of **accuracy**, (2) the **accuracy** of his compass

To assure **accuracy**, I recommend investing in high-quality test kits.

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.

generation

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

synonym: cohort, age group, era

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

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

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.

largely

adv. virtually entirely; to a large degree

synonym: mainly, chiefly, broadly

(1) **largely** accepted, (2) **largely** mitigate the issue

Nevada is **largely** a desert state.

countdown

n. a counting sequence leading up to an event, often marked by a series of signals or cues, also used as a term to describe the final stages leading up to a major event or deadline

synonym: timer

(1) **countdown** clock, (2) wedding **countdown**

The **countdown** to launch began as the astronauts prepared for their mission.

applicable

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

synonym : practical, usable, useful

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

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

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.

software

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

synonym : program, system, operating system

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

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

pilot

n. a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

synonym : aviator, flyer, chief

(1) a test **pilot**, (2) **pilot** production

The **pilot** exercised great care in landing.

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**.

nonprofit

adj. not established for commercial profit

synonym : charitable

(1) a **nonprofit** organization, (2) **nonprofit** agency
Our law firm also focuses on **nonprofit** activities.

nation

n. a large organized community of people living in a particular country or region and having a particular culture

synonym: country, state, sovereign entity

(1) **nation-state**, (2) a seafaring **nation**

The **nation** of Japan is known for its unique culture and advanced technology.

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.

pursue

v. to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

synonym: seek, hunt, chase

(1) **pursue** a goal, (2) **pursue** freedoms

She intends to **pursue** a political career.

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.

academic

adj. associated with schools, colleges, and universities, especially studying and thinking, not with practical skills

synonym: educational, scholarly, theoretical

(1) **academic** probation, (2) an **academic** discussion

An excellent historian must possess an **academic** mentality.

incentivize

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

synonym: encourage, motivate

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

competition

n. a situation in which someone is attempting to beat or outperform another

synonym: contest, match, fight

(1) the first round of the **competition**, (2) intraspecific **competition**

Global **competition** is rising in virtually every industry.

dataset

n. a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes

synonym: data array, database

(1) **dataset** analysis, (2) publicly available **dataset**

The scientist analyzed the large **dataset** to conclude the experiment.

responsible

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

synonym: accountable, answerable, liable

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

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

relate

v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

synonym: connect, link, associate

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

He tried to **relate** his experience to the group, but they

couldn't understand.

crucial

adj. extremely vital or necessary

synonym : essential, pivotal, vital

(1) **crucial** information, (2) a **crucial** issue for women

The revitalization of technology companies is **crucial** to the country's growth.

innovation

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

synonym : invention, initiation, creation

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

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

innovative

adj. introducing or using new methods, ideas, etc.

synonym : creative, ingenious, inventive

(1) use of **innovative** technology, (2) stylistically **innovative** works

The Prime Minister stressed the need to create **innovative** industries.

diversity

n. the quality or fact of many different types of things or people being included in something; a range of different things or people

synonym : variety, multiplicity, variousness

(1) the **diversity** policy of the university, (2) lingual **diversity**

He was impressed by the range and **diversity** of the collection.

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**.

ethics

n. a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong

synonym: morals, principles, moralities

(1) political **ethics**, (2) **ethics** of journalism

This scripture provides the code of **ethics** for the religion.

policy

n. a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective

synonym: strategy, plan, guideline

(1) health **policy**, (2) foreign **policy**

The company's new **policy** on remote work has made it a more inclusive workplace.

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.

folk

n. people in general, especially those of a particular group or type

synonym: community, family, person

(1) **folk** art, (2) the **folk** songs of a particular district

Some seaweed was used as **folk** medicine in ancient times.

warn

v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future

synonym: alert, caution, admonish

(1) **warn** a reckless driver, (2) **warned** me of the plan

I attempted to **warn** him, but he ignored me.

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.

bullet

n. a metal projectile that is shot from a gun

synonym: projectile, slug, shot

(1) **bullet** wound, (2) **bullet** train

The stray **bullet** went through the window and hit the wall.

tension

n. a state of mental or emotional strain or excitement; the state of being stretched tight

synonym: stress, strain, anxiety

(1) **tension** headache, (2) a high- **tension** wire

The **tension** in the room was palpable as the team waited for their leader to speak.

footprint

n. a mark of a foot, shoe, or animal's foot left on a surface

synonym: footmark, imprint, impression

(1) **footprints** in the snow, (2) the **footprints** of an earlier civilization

We choose transportation that has a smaller carbon **footprint**.

transform

v. to change in outward structure or looks;

synonym: alter, convert, change

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

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

wield

v. to possess and exercise power, authority, etc

synonym: exert, manage, handle

(1) **wield** her authority, (2) **wield** a bad influence
They **wielded** enormous power and influence.

absolutely

adv. without restriction or limitation; completely or utterly
synonym: completely, utterly, definitely

(1) **absolutely** against, (2) **absolutely** obsessed with the girl

I am **absolutely** opposed to his idea because of morality.

harrowing

adj. causing distress or suffering; extremely distressing
synonym: traumatic, torturous, distressing

(1) **harrowing** battle, (2) **harrowing** journey

Her **harrowing** experience in the war had left her with deep emotional scars.

exciting

adj. causing a lot of interest or excitement
synonym: exhilarating, stimulating, thrilling

(1) **exciting** football player, (2) **exciting** news

The findings of the experiment were both **exciting** and unexpected.

illuminate

v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

synonym: brighten, light, adorn

(1) **illuminate** a dark hall, (2) **illuminate** my understanding

That biologist **illuminated** the mechanism of heredity.

feasibility

n. the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished

synonym: viability, practicality, workability

(1) determine the **feasibility**, (2) **feasibility** assessment

A **feasibility** study is necessary to determine if a project is viable and worthwhile.

conversation

n. an informal talk between two or more people to exchange their views, ideas, information, etc.

synonym: chat, discussion, dialogue

(1) **conversation** in English, (2) a friendly **conversation**

Your **conversation** reflects your thoughts.

advance

v. to go or move forward; to develop in a positive way

synonym: progress, boost, come along

(1) **advance** the technology, (2) **advance** a cooperative relationship

Scientific knowledge will **advance** significantly with the power of AI.

Session 2: Spelling

1. abs_____ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
2. the ac_____cy of his compass *n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
3. the c__e of an apple *n.* the most essential or fundamental part of something
4. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
5. ca___n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
6. sup_____er country *n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities
7. su___e muscles *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
8. feel co_____nt *adj.* feeling sure about your abilities or qualities or having trust in people, plans, or the future
9. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals

ANSWERS: 1. absolutely, 2. accuracy, 3. core, 4. evolve, 5. carbon, 6. superpower, 7. supple, 8. confident, 9. communicate

10. op_____ze a process *v.* to make the best or most effective use of something
11. me_____n in a report *v.* to speak or write about something or someone briefly
12. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
13. unf_____ely caught in a shower *adv.* by bad luck; unluckily
14. industrial se____r *n.* a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity
15. art cr____c *n.* someone who expresses opinions about the quality of books, music, etc.
16. introduce ope_____al software *adj.* relating to a particular process or series of actions for achieving a result
17. me_____n name *v.* to speak or write about something or someone briefly
18. la_____y mitigate the issue *adv.* virtually entirely; to a large degree
19. in____t food *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge
20. put a ha_____s on my pet *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

ANSWERS: 10. optimize, 11. mention, 12. conversation, 13. unfortunately, 14. sector, 15. critic, 16. operational, 17. mention, 18. largely, 19. ingest, 20. harness

21. access to public tr_____rt *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
22. banking an _____t *n.* someone whose job is to examine something to learn or understand more about it
23. ensure a smooth tra_____on *n.* the process or period of changing from one state or circumstance to another
24. in____t medication *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge
25. bre _____ugh discovery *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
26. 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
27. cutting-edge inn_____on *n.* the creation of a new device or process resulting from study and experimentation
28. 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
29. ad_____e the technology *v.* to go or move forward; to develop in a positive way

ANSWERS: 21. transport, 22. analyst, 23. transition, 24. ingest, 25. breakthrough, 26. grid, 27. innovation, 28. literally, 29. advance

30. key performance me___cs *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
31. a fo___l leaf *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
32. have sur_____gly little effect *adv.* in a way that causes amazement or wonder
33. 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
34. a bu___h of trees *n.* a grouping of several similar things which are growing or fastened together
35. a picture fr___e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
36. sur_____gly advanced culture *adv.* in a way that causes amazement or wonder
37. tu_____e aerofoil *n.* a machine that rotates to generate power from fluids such as water or gas
38. translate li_____ly *adv.* in the real or original meaning of a word or phrase; in a literal sense or way; not figuratively

ANSWERS: 30. metric, 31. fossil, 32. surprisingly, 33. process, 34. bunch, 35. frame, 36. surprisingly, 37. turbine, 38. literally

39. unq_____bly bad *adv.* without a doubt; certainly
40. re_____on of inclusion *n.* the way two persons or groups of people feel and act toward one another
41. overcome hu_____es *n.* a barrier or obstacle that must be overcome
42. ind_____us student *adj.* hardworking, diligent, and persistent in effort
43. in a di_____m *n.* a simplified illustration of the appearance, structure, or workings of something
44. use of inn_____ve technology *adj.* introducing or using new methods, ideas, etc.
45. do_____ad the assignment from the website *v.* to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device
46. distance g_p *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
47. v__t desert *adj.* enormous in size, number, amount, or quantity
48. burning of fo_____l fuels *n.* any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
49. re_____le energy *adj.* capable of being renewed, extended, or replaced

ANSWERS: 39. unquestionably, 40. relation, 41. hurdle, 42. industrious, 43. diagram, 44. innovative, 45. download, 46. gap, 47. vast, 48. fossil, 49. renewable

50. 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
51. 3D di_____m
n. a simplified illustration of the appearance, structure, or workings of something
52. sp_____ic instructions
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
53. copyright pro_____or
n. a person who owns and runs a business, especially a hotel, a shop, or a company
54. even more unf_____ely
adv. by bad luck; unluckily
55. ec_____y class
n. the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel
56. strict time con_____nts
n. a limit or restriction on something, such as an action, behavior, or thought
57. the first round of the com_____on
n. a situation in which someone is attempting to beat or outperform another
58. industry be_____rk
n. a standard or reference point used for comparison or evaluation; a point of reference for measuring progress or performance

ANSWERS: 50. communicate, 51. diagram, 52. specific, 53. proprietor, 54. unfortunately, 55. economy, 56. constraint, 57. competition, 58. benchmark

59. fo____st an epidemic *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
60. a cr____l issue for women *adj.* extremely vital or necessary
61. hi____ic accomplishment *adj.* famous or significant in history, or potentially so
62. a bu__h of schoolgirls *n.* a grouping of several similar things which are growing or fastened together
63. designed spe____lly for men *adv.* only associated with or meant for one thing
64. excessive op____st *n.* a person who tends to expect the best in all things and to be hopeful and confident about the future
65. wi__d a bad influence *v.* to possess and exercise power, authority, etc
66. the di____ty policy of the university *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
67. an eq____le price *adj.* fair and impartial; treating everyone fairly
68. te___o beat *n.* a style of electronic dance music that originated in Detroit in the 1980s and is characterized by a repetitive, synthesized beat and minimalist sound effects; the use of advanced technology or techniques in a particular field

ANSWERS: 59. forecast, 60. crucial, 61. historic, 62. bunch, 63. specifically, 64. optimist, 65. wield, 66. diversity, 67. equitable, 68. techno

69. w__t per square meter *n.* a standard unit for measuring electrical power
70. organic agr_____re *n.* the practice or science of cultivating the land or raising stock
71. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
72. climate var_____ty *n.* the fact or quality of something being likely to vary
73. fu___n cuisine *n.* the process of combining two or more things to form a single entity
74. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
75. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
76. s__n injury *n.* the front part of the leg below the knee
77. equ_____nt amounts *n.* having the same value, quality, meaning, purpose, etc.
78. demonstrate ex_____se *n.* specialized knowledge or skills in a particular field or subject; expert proficiency or knowledge
79. apply AI technology to art *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation

ANSWERS: 69. watt, 70. agriculture, 71. prediction, 72. variability, 73. fusion, 74. incredibly, 75. predict, 76. shin, 77. equivalent, 78. expertise, 79. AI

80. ac____te measurements *adj.* correct and exact in all details
81. do___n of use *n.* a specific sphere of influence or control; a specific field of knowledge or expertise
82. ex____ng football player *adj.* causing a lot of interest or excitement
83. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
84. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
85. el_____te sexual barriers *v.* to remove or get rid of someone or something
86. el_____te contestants *v.* to remove or get rid of someone or something
87. tu_____e energy *n.* a machine that rotates to generate power from fluids such as water or gas
88. op_____ze control for cooling *v.* to make the best or most effective use of something
89. agricultural org_____ion *n.* a group of people who work together for a shared purpose
90. ma_____e amounts *adj.* enormous amount; very heavy and solid
91. f__k art *n.* people in general, especially those of a particular group or type
92. ill_____te my understanding *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity

ANSWERS: 80. accurate, 81. domain, 82. exciting, 83. ecosystem, 84. decide, 85. eliminate, 86. eliminate, 87. turbine, 88. optimize, 89. organization, 90. massive, 91. folk, 92. illuminate

93. the def_____on of a word *n.* a concise explanation of the meaning of a word, phrase, or symbol
94. indicate a wil_____ss to change *n.* the state of being ready or inclined to do something
95. v__t majority *adj.* enormous in size, number, amount, or quantity
96. degree of ac_____cy *n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
97. inn_____on leader *n.* the creation of a new device or process resulting from study and experimentation
98. effects of cl_____e change *n.* the weather in a particular location averaged over some long period
99. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
100. wi__d her authority *v.* to possess and exercise power, authority, etc
101. official sta_____cs *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
102. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
103. w__ned me of the plan *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
104. a seafaring na____n *n.* a large organized community of people living in a particular country or region and having a particular culture

ANSWERS: 93. definition, 94. willingness, 95. vast, 96. accuracy, 97. innovation, 98. climate, 99. environment, 100. wield, 101. statistics, 102. engineer, 103. warn, 104. nation

105. provide ac_____te information *adj.* correct and exact in all details
106. for in_____ce *n.* a particular example or single occurrence of something
107. determine the fea_____ty *n.* the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished
108. as_____ly hall *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
109. res_____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
110. pu___e freedoms *v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them
111. wedding co_____wn *n.* a counting sequence leading up to an event, often marked by a series of signals or cues, also used as a term to describe the final stages leading up to a major event or deadline
112. de___y safety measures *v.* to move troops or weapons into a position or military action; to bring into something in an effective way
113. the fo_____nts of an earlier civilization *n.* a mark of a foot, shoe, or animal's foot left on a surface
114. private se___r *n.* a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity

ANSWERS: 105. accurate, 106. instance, 107. feasibility, 108. assembly, 109. responsible, 110. pursue, 111. countdown, 112. deploy, 113. footprint, 114. sector

115. guarantee re_____le delivery *adj.* worthy of being relied on; trustworthy
116. no_____it agency *adj.* not established for commercial profit
117. master c__f *n.* a cook, especially the chief cook in a restaurant or hotel
118. ha_____s a horse to a carriage *v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object
119. ex_____ng news *adj.* causing a lot of interest or excitement
120. 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
121. tec_____cal policy *adj.* based on scientific and industrial progress
122. ne___l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain
123. con_____nt on business activity *n.* a limit or restriction on something, such as an action, behavior, or thought
124. ca___n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
125. achieve the hi_____ic feat *adj.* famous or significant in history, or potentially so

ANSWERS: 115. reliable, 116. nonprofit, 117. chef, 118. harness, 119. exciting, 120. develop, 121. technological, 122. neural, 123. constraint, 124. carbon, 125. historic

126. 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
127. IT inf_____ure *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
128. a dependent do____n *n.* a specific sphere of influence or control; a specific field of knowledge or expertise
129. la_____y accepted *adv.* virtually entirely; to a large degree
130. sc_____h off a name *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
131. sup_____er leader *n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities
132. stylistically inn_____ve works *adj.* introducing or using new methods, ideas, etc.
133. te____o festival *n.* a style of electronic dance music that originated in Detroit in the 1980s and is characterized by a repetitive, synthesized beat and minimalist sound effects; the use of advanced technology or techniques in a particular field

ANSWERS: 126. electrify, 127. infrastructure, 128. domain, 129. largely, 130. scratch, 131. superpower, 132. innovative, 133. techno

134. severe cr___c *n.* someone who expresses opinions about the quality of books, music, etc.
135. su___e leather *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
136. av___l you little *v.* to help or benefit; to use or take advantage of
137. re___e a story *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
138. hu___e race *n.* a barrier or obstacle that must be overcome
139. unp_____ble outcome *adj.* not capable of being foreseen or calculated; not regular or certain
140. wil_____ss to help *n.* the state of being ready or inclined to do something
141. a heavy sc_____le *n.* a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done
142. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
143. imp_____ion on stage *n.* the act of making something up on the spot or creating or performing something without preparation
144. follow his ins_____ons *n.* detailed direction, order, etc., on how to do or use something

ANSWERS: 134. critic, 135. supple, 136. avail, 137. relate, 138. hurdle, 139. unpredictable, 140. willingness, 141. schedule, 142. opposition, 143. improvisation, 144. instruction

145. ex____al factors *adj.* belonging to or situated outside of someone or something
146. display res_____on *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display
147. reg_____ry cells *adj.* having the power to control or restrict something such as business or industry according to rules or principles
148. as_____ly line *n.* a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
149. se_____te cream from milk *v.* to force, take, or pull apart; mark as different
150. do_____ad files from the Internet *v.* to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device
151. non-qua_____ble risk *adj.* able to be measured, expressed, or quantified in numerical or statistical terms
152. op_____or error *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations

ANSWERS: 145. external, 146. resolution, 147. regulatory, 148. assembly, 149. separate, 150. download, 151. quantifiable, 152. operator

153. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
154. soc_____cal issues *adj.* relating to both social and political aspects of society; having to do with how politics and social issues are interconnected or influence each other
155. as_____le your colleagues *v.* to collect in one place as a single group
156. acc_____sh military operations *v.* to finish or achieve something successfully
157. op_____st by nature *n.* a person who tends to expect the best in all things and to be hopeful and confident about the future
158. de_____e on a course of action *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
159. ha_____ng battle *adj.* causing distress or suffering; extremely distressing
160. cr_____l information *adj.* extremely vital or necessary
161. cl_____ic moment *adj.* relating to the highest point of a story or event, typically the most intense or exciting moment; bringing something to a high point or conclusion
162. et_____s of journalism *n.* a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong
163. chemical ad_____on *n.* the act or process of adding something to something else; the process of adding numbers

ANSWERS: 153. ecosystem, 154. sociopolitical, 155. assemble, 156. accomplish, 157. optimist, 158. decide, 159. harrowing, 160. crucial, 161. climactic, 162. ethics, 163. addition

164. performance be_____rk *n.* a standard or reference point used for comparison or evaluation; a point of reference for measuring progress or performance
165. biomass f__l *n.* a substance that is typically burned to generate heat or energy
166. bu___t wound *n.* a metal projectile that is shot from a gun
167. fea_____ty assessment *n.* the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished
168. AI expert *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
169. 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
170. accordance with app_____le law *adj.* fit or suitable to be applied; having relevance to a person or thing
171. in a pre_____le manner *adj.* capable of being known, seen or declared in advance
172. individual ins_____on *n.* detailed direction, order, etc., on how to do or use something

ANSWERS: 164. benchmark, 165. fuel, 166. bullet, 167. feasibility, 168. AI, 169. label, 170. applicable, 171. predictable, 172. instruction

173. a high-te_____n wire *n.* a state of mental or emotional strain or excitement; the state of being stretched tight
174. inf_____ure cost *n.* the basic systems, services, or features that are necessary for an organization or country, such as transport and power supplies
175. the fr__e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
176. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
177. art_____al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
178. 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
179. av__l ourselves of this opportunity *v.* to help or benefit; to use or take advantage of
180. acc_____sh a goal *v.* to finish or achieve something successfully
181. ec_____y of scale *n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

ANSWERS: 173. tension, 174. infrastructure, 175. frame, 176. software, 177. artificial, 178. purity, 179. avail, 180. accomplish, 181. economy

182. di___r from the majority *v.* to be not like someone or something in some way
183. w___n a reckless driver *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
184. publicly available da_____t *n.* a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes
185. lingual di_____ty *n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
186. an ob_____le to progress *n.* a thing that blocks one's way or prevents or hinders progress
187. foreign po_____y *n.* a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective
188. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
189. co_____wn clock *n.* a counting sequence leading up to an event, often marked by a series of signals or cues, also used as a term to describe the final stages leading up to a major event or deadline

ANSWERS: 182. differ, 183. warn, 184. dataset, 185. diversity, 186. obstacle, 187. policy, 188. responsible, 189. countdown

190. notable in _____ce
n. a particular example or single occurrence of something
191. us _____s information
adj. not serving any useful purpose; having no practical result
192. ha _____ng journey
adj. causing distress or suffering; extremely distressing
193. marketing ex _____se
n. specialized knowledge or skills in a particular field or subject; expert proficiency or knowledge
194. copyrighted so _____re
n. a set of computer programs and associated documentation and data for doing particular computational jobs
195. a de _____nt person
adj. relying on someone or something else for support or aid
196. heat fu _____n
n. the process of combining two or more things to form a single entity
197. dose-de _____nt induction
adj. relying on someone or something else for support or aid
198. en _____er shortage
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
199. da _____t analysis
n. a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes
200. 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

ANSWERS: 190. instance, 191. useless, 192. harrowing, 193. expertise, 194. software, 195. dependent, 196. fusion, 197. dependent, 198. engineer, 199. dataset, 200. process

201. acc_____te the car *v.* to make something faster or earlier; to cause to develop or progress more quickly
202. principles of sus_____le development *adj.* able to continue or be continued for a long time
203. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
204. in_____ve agriculture *adj.* involving a lot of work or activity in a short time
205. di____r according to species *v.* to be not like someone or something in some way
206. art_____al environment *adj.* not natural and made by human beings; not real but produced to resemble something
207. construction of new c__l plants *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
208. ev____e *v.* to develop gradually, or to cause the development of something or someone gradually
209. re_____on between cause and effect *n.* the way two persons or groups of people feel and act toward one another
210. key co_____nt *n.* one of several parts that combines with others to form something bigger
211. health po____y *n.* a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective

ANSWERS: 201. accelerate, 202. sustainable, 203. opportune, 204. intensive, 205. differ, 206. artificial, 207. coal, 208. evolve, 209. relation, 210. component, 211. policy

212. us____s in the kitchen	<i>adj.</i> not serving any useful purpose; having no practical result
213. gloomy pre_____ons	<i>n.</i> the act of predicting the future by reasoning; a statement made about the future
214. ob_____le avoidance	<i>n.</i> a thing that blocks one's way or prevents or hinders progress
215. a cold cl_____e	<i>n.</i> the weather in a particular location averaged over some long period
216. s__n guard	<i>n.</i> the front part of the leg below the knee
217. a test pi__t	<i>n.</i> a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water
218. na___n-state	<i>n.</i> a large organized community of people living in a particular country or region and having a particular culture
219. ma_____e stars	<i>adj.</i> enormous amount; very heavy and solid
220. pr_____le cause of a fire	<i>adj.</i> likely to happen or likely to be true
221. a no_____it organization	<i>adj.</i> not established for commercial profit
222. ex_____al commerce	<i>adj.</i> belonging to or situated outside of someone or something
223. inc_____ly cheerful character	<i>adv.</i> in a way that is very difficult to believe; exceedingly or extremely
224. pro_____or of a business	<i>n.</i> a person who owns and runs a business, especially a hotel, a shop, or a company
225. economically fe_____le	<i>adj.</i> capable of being or likely to be made, done, or achieved

ANSWERS: 212. useless, 213. prediction, 214. obstacle, 215. climate, 216. shin, 217. pilot, 218. nation, 219. massive, 220. probable, 221. nonprofit, 222. external, 223. incredibly, 224. proprietor, 225. feasible

226. dangerously unp_____ble person *adj.* not capable of being foreseen or calculated; not regular or certain
227. 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
228. number of different sc_____ios *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
229. a co_____nt remark *adj.* feeling sure about your abilities or qualities or having trust in people, plans, or the future
230. a precise def_____on *n.* a concise explanation of the meaning of a word, phrase, or symbol
231. fo_____nts in the snow *n.* a mark of a foot, shoe, or animal's foot left on a surface
232. nonmetallic el_____ts *n.* a fundamental or essential part of something
233. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
234. new design el_____ts *n.* a fundamental or essential part of something
235. bre_____ugh in the negotiations *n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
236. de____y troops for battle *v.* to move troops or weapons into a position or military action; to bring into something in an effective way

ANSWERS: 226. unpredictable, 227. purity, 228. scenario, 229. confident, 230. definition, 231. footprint, 232. element, 233. industrious, 234. element, 235. breakthrough, 236. deploy

237. inc_____ze the right behavior *v.* to make someone want to do in a particular way by offering them a reward
238. ill_____te a dark hall *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
239. 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
240. an elevator op_____or *n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
241. tec_____cal advancement *adj.* based on scientific and industrial progress
242. sta_____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
243. a c__l-fired ship *n.* a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
244. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
245. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation
246. 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

ANSWERS: 237. incentivize, 238. illuminate, 239. grid, 240. operator, 241. technological, 242. statistics, 243. coal, 244. conversation, 245. improvisation, 246. label

247. senior research an_____t *n.* someone whose job is to examine something to learn or understand more about it
248. sc_____h my signature *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
249. pre_____le pattern *adj.* capable of being known, seen or declared in advance
250. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
251. bu____t train *n.* a metal projectile that is shot from a gun
252. acc_____te a chemical reaction *v.* to make something faster or earlier; to cause to develop or progress more quickly
253. tr_____rm an education system *v.* to change in outward structure or looks;
254. tr_____rt facilities *n.* a system for moving people or products from one location to another using automobiles, roads, and so on
255. tr_____rm heat into power *v.* to change in outward structure or looks;
256. c__e business activity *n.* the most essential or fundamental part of something
257. org_____ion chart *n.* a group of people who work together for a shared purpose
258. a pro_____ic situation *adj.* full of difficulties; difficult to deal with or solve
259. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger

ANSWERS: 247. analyst, 248. scratch, 249. predictable, 250. opportune, 251. bullet, 252. accelerate, 253. transform, 254. transport, 255. transform, 256. core, 257. organization, 258. problematic, 259. component

260. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
261. realistic ti_____le *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process
262. 30-w__t light bulb *n.* a standard unit for measuring electrical power
263. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
264. equ_____nt in meaning *n.* having the same value, quality, meaning, purpose, etc.
265. re_____le access *adj.* worthy of being relied on; trustworthy
266. re_____le subscriptions *adj.* capable of being renewed, extended, or replaced
267. the worst case sc_____io *n.* a description of possible actions or events in the future; a written outline of a play, film, or literary work
268. in an eq_____le manner *adj.* fair and impartial; treating everyone fairly
269. for spe_____lly American customers *adv.* only associated with or meant for one thing
270. natural var_____ty *n.* the fact or quality of something being likely to vary

ANSWERS: 260. generation, 261. timescale, 262. watt, 263. generation, 264. equivalent, 265. reliable, 266. renewable, 267. scenario, 268. equitable, 269. specifically, 270. variability

271. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
272. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
273. compliance with reg_____ry requirements *adj.* having the power to control or restrict something such as business or industry according to rules or principles
274. qua_____ble results *adj.* able to be measured, expressed, or quantified in numerical or statistical terms
275. 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
276. political et_____s *n.* a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong
277. a weather fo_____st *n.* a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
278. soc_____cal unrest *adj.* relating to both social and political aspects of society; having to do with how politics and social issues are interconnected or influence each other
279. long-ti_____le *n.* a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process

ANSWERS: 271. assemble, 272. predict, 273. regulatory, 274. quantifiable, 275. background, 276. ethics, 277. forecast, 278. sociopolitical, 279. timescale

280. the g_p between ideal and reality *n.* a conspicuous disparity or difference separates something such as a figure, people, their opinions, situation, etc.
281. pu___e a goal *v.* to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them
282. 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
283. me___c units *adj.* using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
284. give app_____le examples *adj.* fit or suitable to be applied; having relevance to a person or thing
285. pr__y server *n.* a person or entity that is authorized to act on behalf of another person or entity
286. ac_____ic probation *adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
287. intraspecific com_____on *n.* a situation in which someone is attempting to beat or outperform another
288. 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

ANSWERS: 280. gap, 281. pursue, 282. electrify, 283. metric, 284. applicable, 285. proxy, 286. academic, 287. competition, 288. develop

289. the f__k songs of a particular district *n.* people in general, especially those of a particular group or type
290. sus_____le alternative fuel *adj.* able to continue or be continued for a long time
291. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
292. smokeless f__l *n.* a substance that is typically burned to generate heat or energy
293. seems to be highly pro_____ic *adj.* full of difficulties; difficult to deal with or solve
294. c__f knife *n.* a cook, especially the chief cook in a restaurant or hotel
295. pr_____le outcome *adj.* likely to happen or likely to be true
296. in_____ve care *adj.* involving a lot of work or activity in a short time
297. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
298. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
299. res_____on of a conflict *n.* a firm decision or determination to do or not do something; the action of solving a problem, dispute, or conflict; the quality of being resolved or determined; the clarity and sharpness of an image or display

ANSWERS: 289. folk, 290. sustainable, 291. intelligence, 292. fuel, 293. problematic, 294. chef, 295. probable, 296. intensive, 297. intelligence, 298. specific, 299. resolution

300. arrange my sc_____le	<i>n.</i>	a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done
301. se_____te video into chapter	<i>v.</i>	to force, take, or pull apart; mark as different
302. tra_____on phase	<i>n.</i>	the process or period of changing from one state or circumstance to another
303. inc_____ze carpooling	<i>v.</i>	to make someone want to do in a particular way by offering them a reward
304. an ac_____ic discussion	<i>adj.</i>	associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
305. ad_____on of vectors	<i>n.</i>	the act or process of adding something to something else; the process of adding numbers
306. healthcare pr___y	<i>n.</i>	a person or entity that is authorized to act on behalf of another person or entity
307. te_____n headache	<i>n.</i>	a state of mental or emotional strain or excitement; the state of being stretched tight
308. ad_____e a cooperative relationship	<i>v.</i>	to go or move forward; to develop in a positive way
309. fe_____le assumption	<i>adj.</i>	capable of being or likely to be made, done, or achieved
310. intensive agr_____re	<i>n.</i>	the practice or science of cultivating the land or raising stock
311. meet with opp_____on	<i>n.</i>	the act of disagreeing or resisting; the state of strong disagreement

ANSWERS: 300. schedule, 301. separate, 302. transition, 303. incentivize, 304. academic, 305. addition, 306. proxy, 307. tension, 308. advance, 309. feasible, 310. agriculture, 311. opposition

312. build ope_____al excellence *adj.* relating to a particular process or series of actions for achieving a result
313. 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
314. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
315. re___e a message *v.* to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something
316. ne___l networks in AI *adj.* of or relating to a nerve or the nervous system that includes the brain
317. abs_____ly against *adv.* without restriction or limitation; completely or utterly
318. cl_____ic chapter *adj.* relating to the highest point of a story or event, typically the most intense or exciting moment; bringing something to a high point or conclusion
319. unq_____bly safe *adv.* without a doubt; certainly
320. pi__t production *n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

ANSWERS: 312. operational, 313. background, 314. environment, 315. relate, 316. neural, 317. absolutely, 318. climactic, 319. unquestionably, 320. pilot

Session 3: Fill in the Blanks

1. This country _____ its weapons in the east region.
 - v. to move troops or weapons into a position or military action; to bring into something in an effective way

2. The government tried to _____ the commercialization of this development.
 - v. to make something faster or earlier; to cause to develop or progress more quickly

3. The stray _____ went through the window and hit the wall.
 - n. a metal projectile that is shot from a gun

4. When a company discloses information to the market, an _____ auditor verifies them.
 - adj. belonging to or situated outside of someone or something

5. One bad apple spoils the whole _____.
 - n. a grouping of several similar things which are growing or fastened together

6. It's notoriously challenging to _____ birth rates.
 - v. to state beforehand that something will happen in the future, mainly based on knowledge or experience

7. The findings of the experiment were both _____ and unexpected.
 - adj. causing a lot of interest or excitement

8. 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

ANSWERS: 1. deployed, 2. accelerate, 3. bullet, 4. external, 5. bunch, 6. predict, 7. exciting, 8. communicate

9. Nevada is _____ a desert state.

adv. virtually entirely; to a large degree

10. The _____ will repair my telephone tomorrow morning.

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

11. In the past, Japanese banks were protected by _____ control.

adj. having the power to control or restrict something such as business or industry according to rules or principles

12. In _____ private corporations provide healthcare services.

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

13. An excellent historian must possess an _____ mentality.

adj. associated with schools, colleges, and universities, especially studying and thinking, not with practical skills

14. Natural selection is an essential _____ in Darwin's theory of evolution.

n. a fundamental or essential part of something

15. Nuclear _____ is a process in which atomic nuclei combine to form heavier nuclei.

n. the process of combining two or more things to form a single entity

16. She voted by _____ because she was unable to attend in person.

n. a person or entity that is authorized to act on behalf of another person or entity

ANSWERS: 9. largely, 10. engineer, 11. regulatory, 12. addition, 13. academic, 14. element, 15. fusion, 16. proxy

17. We combust _____ and other fossil fuels to generate electricity.
n. a combustible black or brownish-black sedimentary rock that is found below the ground and burnt to produce heat
18. We choose transportation that has a smaller carbon _____.
n. a mark of a foot, shoe, or animal's foot left on a surface
19. The impact of the new policy will be _____ through measurable data.
adj. able to be measured, expressed, or quantified in numerical or statistical terms
20. The two products _____ in their quality and price.
v. to be not like someone or something in some way
21. The _____ battle scene was the most intense moment of the movie.
adj. relating to the highest point of a story or event, typically the most intense or exciting moment; bringing something to a high point or conclusion
22. The recent economic downturn has resulted in _____ layoffs.
adj. enormous amount; very heavy and solid
23. The company's new _____ on remote work has made it a more inclusive workplace.
n. a set of rules, guidelines, principles, or procedures that govern decision-making or action, often used in the context of business or government; a course of action or plan of action adopted or followed by an organization or individual to achieve a goal or objective
24. Scientific knowledge will _____ significantly with the power of AI.
v. to go or move forward; to develop in a positive way

ANSWERS: 17. coal, 18. footprint, 19. quantifiable, 20. differed, 21. climactic, 22. massive, 23. policy, 24. advance

25. Our law firm also focuses on _____ activities.

adj. not established for commercial profit

26. The _____ in the room was palpable as the team waited for their leader to speak.

n. a state of mental or emotional strain or excitement; the state of being stretched tight

27. This regulation is not _____ to minors.

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

28. It seems _____ that he has forgotten our scheduled meeting.

adj. likely to happen or likely to be true

29. 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

30. 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

31. He is drawing a _____ illustrating how the equipment operates.

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

32. _____ advances have disrupted many industries.

adj. based on scientific and industrial progress

33. The budget _____ forced them to make difficult decisions.

n. a limit or restriction on something, such as an action, behavior, or thought

ANSWERS: 25. nonprofit, 26. tension, 27. applicable, 28. probable, 29. intensive, 30. infrastructure, 31. diagram, 32. Technological, 33. constraint

34. The company specializes in both hardware and _____.
- n.* a set of computer programs and associated documentation and data for doing particular computational jobs
35. The president began to _____ an army.
- v.* to collect in one place as a single group
36. The scientist analyzed the large _____ to conclude the experiment.
- n.* a structured collection of data that is compiled and processed in a computer system or program, typically for analysis, research, or machine learning purposes
37. I need to _____ the latest update for my computer's operating system.
- v.* to transfer data or files from the Internet or computer network to a user's computer or device; (noun) the process of transferring data or information from a remote or central computer to a local computer or device
38. These articles cite five _____ of climate change.
- n.* a particular example or single occurrence of something
39. Don't _____ your mosquito bites.
- v.* to cut or damage the surface of something or the skin with a sharp or pointed object
40. The machine should be _____ by Friday afternoon.
- adj.* relating to a particular process or series of actions for achieving a result
41. The vegetarian burger was an _____ that quickly spread to the United Kingdom.
- n.* the creation of a new device or process resulting from study and experimentation

ANSWERS: 34. software, 35. assemble, 36. dataset, 37. download, 38. instances, 39. scratch, 40. operational, 41. innovation

42. 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
43. Their team specializes in demand _____ for our products.
n. a prediction or statement about how something, such as the weather, will develop or what will happen in the future; (verb) to predict the future in advance
44. It was the _____ of a dinosaur tooth.
n. any preserved remains, impression, or trace of any once-living thing that has become hard and turned into rock
45. The _____ climate of the country has led to a rise in protests and demonstrations.
adj. relating to both social and political aspects of society; having to do with how politics and social issues are interconnected or influence each other
46. The scientist conducted a study that provided _____ details about the species' behavior.
adj. clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
47. The economy becomes more volatile and less _____.
adj. capable of being known, seen or declared in advance
48. In the _____ system, measurements are made in meters and liters.
adj. using or relating to the meter as a unit of length; a system of related measures that facilitates the quantification of some particular characteristic
49. There was a disturbance of _____ function.
adj. of or relating to a nerve or the nervous system that includes the brain

ANSWERS: 42. label, 43. forecasts, 44. fossil, 45. sociopolitical, 46. specific, 47. predictable, 48. metric, 49. neural

50. The weather in this region is often _____ with sudden rainstorms and strong winds.

adj. not capable of being foreseen or calculated; not regular or certain

51. I'm not _____ in our victory.

adj. feeling sure about your abilities or qualities or having trust in people, plans, or the future

52. The president prepared several possible _____ for an enemy attack.

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

53. Humankind took centuries to _____ true democracy.

v. to finish or achieve something successfully

54. The _____ at the restaurant was known for his creative and delicious dishes.

n. a cook, especially the chief cook in a restaurant or hotel

55. The _____ scarcity most severely impacted the manufacturing sector

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

56. Human conservation efforts often fail unexpectedly because they disturb the balance of the _____.

n. all the plants and living creatures in an area and the way they affect each other and the environment

57. The company's _____ in the market was expanding to new territories.

n. a specific sphere of influence or control; a specific field of knowledge or expertise

ANSWERS: 50. unpredictable, 51. confident, 52. scenarios, 53. accomplish, 54. chef, 55. fuel, 56. ecosystem, 57. domain

58. 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.
59. Enhanced rail _____ is crucial for our business.
- n.* a system for moving people or products from one location to another using automobiles, roads, and so on
60. The teacher used a _____ to measure the progress of her students.
- n.* a standard or reference point used for comparison or evaluation; a point of reference for measuring progress or performance
61. The nation's healthcare system is in _____ at the moment.
- n.* the process or period of changing from one state or circumstance to another
62. 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
63. They _____ enormous power and influence.
- v.* to possess and exercise power, authority, etc
64. This ad campaign is aimed _____ at young women.
- adv.* only associated with or meant for one thing
65. Global _____ is rising in virtually every industry.
- n.* a situation in which someone is attempting to beat or outperform another

ANSWERS: 58. gap, 59. transportation, 60. benchmark, 61. transition, 62. electrify, 63. wielded, 64. specifically, 65. competition

66. Parallel lines are, by _____ lines on the same plane that never cross.
n. a concise explanation of the meaning of a word, phrase, or symbol
67. The _____ to launch began as the astronauts prepared for their mission.
n. a counting sequence leading up to an event, often marked by a series of signals or cues, also used as a term to describe the final stages leading up to a major event or deadline
68. 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
69. Her _____ to help others earned her many friends.
n. the state of being ready or inclined to do something
70. So far, the meeting is going according to _____.
n. a list of planned activities, tasks, or things that must be completed showing when they are intended to happen or be done
71. That biologist _____ the mechanism of heredity.
v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
72. 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
73. She couldn't _____ whether to order the pizza or the pasta for dinner.
v. to make up someone's mind about something; to come to a conclusion or judgment after considering options

ANSWERS: 66. definition, 67. countdown, 68. supple, 69. willingness, 70. schedule, 71. illuminated, 72. background, 73. decide

74. Your _____ reflects your thoughts.
- n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
75. We need to _____ the aspect of his personality from the part of his competence when making an investment decision.
- v.* to force, take, or pull apart; mark as different
76. The _____ of Japan is known for its unique culture and advanced technology.
- n.* a large organized community of people living in a particular country or region and having a particular culture
77. A _____ study is necessary to determine if a project is viable and worthwhile.
- n.* the state or quality of being feasible; the likelihood or possibility of something being successful or able to be accomplished
78. There is considerable _____ in all the test scores.
- n.* the fact or quality of something being likely to vary
79. He was impressed by the range and _____ of the collection.
- n.* the quality or fact of many different types of things or people being included in something; a range of different things or people
80. The _____ of the small bakery was always friendly and welcoming.
- n.* a person who owns and runs a business, especially a hotel, a shop, or a company
81. The Prime Minister stressed the need to create _____ industries.
- adj.* introducing or using new methods, ideas, etc.

ANSWERS: 74. conversation, 75. separate, 76. nation, 77. feasibility, 78. variability, 79. diversity, 80. proprietor, 81. innovative

82. She is the president of a large international _____.
- n.* a group of people who work together for a shared purpose
83. These gas nebulas are merely newborn galactic _____.
- n.* the most essential or fundamental part of something
84. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
85. We can _____ this possibility from those consumptions.
- v.* to remove or get rid of someone or something
86. The company's success can be attributed to the _____ of its employees.
- n.* specialized knowledge or skills in a particular field or subject; expert proficiency or knowledge
87. The detective looked for fingerprints on the window _____.
- n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
88. The Chinese people have accomplished several _____ feats.
- adj.* famous or significant in history, or potentially so
89. Several hectares of land are needed to generate more than 1-mega_____ solar power.
- n.* a standard unit for measuring electrical power
90. 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: 82. organization, 83. cores, 84. evolved, 85. eliminate, 86. expertise, 87. frame, 88. historic, 89. watt, 90. literally

91. Trees absorb _____ dioxide and give off oxygen.
- n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
92. The _____ of the machine must follow strict safety protocols.
- n.* a person who uses and controls machinery or equipment; a mathematical symbol used to perform calculations
93. The essence of economics is to _____ the allocation of limited resources.
- v.* to make the best or most effective use of something
94. He created a beautiful piece of music using only _____.
- n.* the act of making something up on the spot or creating or performing something without preparation
95. Governments _____ their citizens to buy eco-friendly products through subsidies.
- v.* to make someone want to do in a particular way by offering them a reward
96. _____ and weather have an impact on every part of our lifestyles.
- n.* the weather in a particular location averaged over some long period
97. The _____ concluded that bankruptcy was inevitable.
- n.* someone whose job is to examine something to learn or understand more about it
98. People have been exploring ways to _____ natural forces and resources since ancient times.
- v.* to control and exploit the power of something, especially natural resources that produce energy; (noun) a set of narrow pieces of leather and metal that are used to control or hold in place a person, animal, or object

ANSWERS: 91. carbon, 92. operator, 93. optimize, 94. improvisation, 95. incentivize, 96. Climate, 97. analyst, 98. harness

99. She is a confident _____ who always looks on the bright side.
n. a person who tends to expect the best in all things and to be hopeful and confident about the future
100. A _____ audience viewed the broadcast.
adj. enormous in size, number, amount, or quantity
101. It is not _____ and inefficient to complete many tasks at once.
adj. capable of being or likely to be made, done, or achieved
102. The European Central Bank is Europe's _____ of the Federal Reserve.
n. having the same value, quality, meaning, purpose, etc.
103. 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
104. This company's _____ plant is an enormous facility.
n. a group of people who have been elected, especially one that meets regularly and makes decisions or laws for a specific region or country
105. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.
adj. answerable or accountable for something within one's power, control, or management
106. To assure _____ I recommend investing in high-quality test kits.
n. the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake

ANSWERS: 99. optimist, 100. vast, 101. feasible, 102. equivalent, 103. mentioned, 104. assembly, 105. responsible, 106. accuracy,

107. The government should do more to support environmentally _____ agriculture.

adj. able to continue or be continued for a long time

108. The _____ intelligence system has revolutionized the way we live and work.

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

109. 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

110. The evolution of processors has dramatically improved the performance of ____.

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

111. The _____ party strongly disagreed with the government's proposed legislation.

n. the act of disagreeing or resisting; the state of strong disagreement

112. The industrial _____ laws were passed with little to no alteration.

n. the way two persons or groups of people feel and act toward one another

113. The exam was _____ tricky for everyone.

adv. in a way that causes amazement or wonder

ANSWERS: 107. sustainable, 108. artificial, 109. develop, 110. AI, 111. opposition, 112. relations, 113. surprisingly

114. This scripture provides the code of _____ for the religion.

- n.* a branch of philosophy that considers what is morally right and wrong conduct; a set of beliefs about what is morally right and wrong

115. The _____ course was challenging but fun.

- n.* a thing that blocks one's way or prevents or hinders progress

116. 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

117. I attempted to _____ him, but he ignored me.

- v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future

118. I am _____ opposed to his idea because of morality.

- adv.* without restriction or limitation; completely or utterly

119. In terms of _____ he was head and shoulders above his classmates.

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

120. He was known to be very _____ and would often work late into the night.

- adj.* hardworking, diligent, and persistent in effort

121. Direct democracy is effective in quickly resolving _____ situations within a community.

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

ANSWERS: 114. ethics, 115. obstacle, 116. purity, 117. warn, 118. absolutely, 119. intelligence, 120. industrious, 121. problematic

122. The ability to fly like a bird is often considered a _____ in comic books and movies.

- n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities

123. _____ is the foundation of our economy.

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

124. Their financing options are reasonable and easy to _____.

- v.* to help or benefit; to use or take advantage of

125. The _____ of the country is struggling due to the recent political instability.

- n.* the system by which a country or region produces manages, and distributes goods and services, including the money and finances involved in these activities; (of an airline) the lowest-priced, most basic option for seating in commercial travel

126. He made a New Year's _____ to exercise more and eat healthier.

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

127. Her _____ experience in the war had left her with deep emotional scars.

- adj.* causing distress or suffering; extremely distressing

128. The company faced several _____ in the development of its new product.

- n.* a barrier or obstacle that must be overcome

129. They needed further _____ to perform their duties efficiently.

- n.* detailed direction, order, etc., on how to do or use something

ANSWERS: 122. superpower, 123. Agriculture, 124. avail, 125. economy, 126. resolution, 127. harrowing, 128. hurdles, 129. instruction

130. 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

131. The phone rang at the most _____ time.

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

132. _____ 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

133. Several cities are experiencing _____ high unemployment rates.

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

134. The treatments were done but, _____ were unsuccessful.

adv. by bad luck; unluckily

135. Some seaweed was used as _____ medicine in ancient times.

n. people in general, especially those of a particular group or type

136. The pain in his _____ made it hard for him to walk.

n. the front part of the leg below the knee

137. 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

ANSWERS: 130. component, 131. opportune, 132. Grid, 133. incredibly, 134. unfortunately, 135. folk, 136. shin, 137. process

138. The _____ exercised great care in landing.

- n.* a person who flies an aircraft, especially as a job; a person qualified to guide ships through a difficult area of water

139. The club's playlist featured a lot of _____ music.

- n.* a style of electronic dance music that originated in Detroit in the 1980s and is characterized by a repetitive, synthesized beat and minimalist sound effects; the use of advanced technology or techniques in a particular field

140. The official transcript contains _____ academic records.

- adj.* correct and exact in all details

141. The wind _____ were spinning rapidly, generating clean energy for the nearby town.

- n.* a machine that rotates to generate power from fluids such as water or gas

142. People who compulsively _____ non-food items, such as dirt or chalk, suffer from a condition called pica.

- v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

143. Advocates for legal reform hear less harsh words from their _____.

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

144. The technology _____ is constantly evolving and innovating.

- n.* a distinct part or division of something often used to refer to a segment of an economy or industry; an area or field of work or activity

145. A technique called deep learning has led to _____ in AI.

- n.* a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem

ANSWERS: 138. pilot, 139. techno, 140. accurate, 141. turbines, 142. ingest, 143. critics, 144. sector, 145. breakthroughs

146. The revitalization of technology companies is _____ to the country's growth.

adj. extremely vital or necessary

147. 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

148. In a democratic country, governments promote _____ opportunities to participate in society.

adj. fair and impartial; treating everyone fairly

149. He tried to _____ his experience to the group, but they couldn't understand.

v. to establish a connection or association between two or more things; to narrate or tell about an event, experience, or relationship; to empathize or feel sympathy with someone or something

150. _____ he was the best candidate for the job.

adv. without a doubt; certainly

151. The _____ demonstrate that poverty and unemployment are genuine problems.

n. the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

152. She intends to _____ a political career.

v. to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

153. The production of _____ fuels requires massive volumes of fresh water.

adj. capable of being renewed, extended, or replaced

ANSWERS: 146. crucial, 147. environment, 148. equitable, 149. relate, 150. Unquestionably, 151. statistics, 152. pursue, 153. renewable

154. Trains are _____ inexpensive, and ideal for long-distance travel.

adj. worthy of being relied on; trustworthy

155. The _____ for completing the construction project is three years.

n. a period or interval of time, particularly one used as a standard for measuring or comparing other periods of time; a reference point or benchmark for the duration or length of a particular event or process

156. The old, rusty tools were now _____ and had to be thrown away.

adj. not serving any useful purpose; having no practical result

157. The small island nation is heavily _____ on tourism as its main source of income.

adj. relying on someone or something else for support or aid

158. These results muddied the _____.

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

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

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

160. My father's death _____ my life completely.

v. to change in outward structure or looks;

ANSWERS: 154. reliable, 155. timescale, 156. useless, 157. dependent, 158. prediction, 159. generation, 160. transformed