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Torsten Reil: Animate characters by evolving them |

TED Talk

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

All Words

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Session 1: Word List

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.

simulate

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

synonym: pretend, imitate, mimic

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

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

humming

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

synonym: buzzing, droning, vibrating

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

The **humming** of the bees filled the air as she walked

through the garden.

nervous

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

synonym: neural, anxious, uneasy

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

He suffers from **nervous** breakdowns.

clip

n. a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip

synonym: buckle, hook, pin

(1) tie **clip**, (2) short video **clip**

He fastens some sheets of paper with a **clip**.

grand

adj. important and large in size, scope, or extent

synonym: impressive, great, ambitious

(1) a **grand** meal, (2) **grand** bargain

This year's **grand** gathering will be held in Canada.

theft

n. the act of taking anything from someone or somewhere unlawfully; stealing

synonym: stealing, heist, robbery

(1) victim of identity **theft**, (2) **theft** of designs

Poverty is not a reproach; however, **theft** is.

animation

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

synonym: motion, movement, liveliness

(1) **animation** studio, (2) **animation** film

The **animation** of the characters in the movie was so realistic, and it was as if they were there.

repetition

n. the act of doing or saying something many times

synonym: duplication, iteration, recurrence

(1) **repetition** of the word, (2) habitual **repetition**
Repetition is the mother of all learning.

graph

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

synonym: chart, diagram, figure

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

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

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space

She tried to **visualize** the layout of the new house in her mind.

animate

v. to make something full of interest and energy

synonym: invigorate, energize, enliven

(1) **animate** the body, (2) **animate** his soul

The positive attitude of the supervisor **animated** the discussion.

studio

n. a room or building where creative or artistic work is produced; a television or radio production company

synonym: workshop, atelier, room

(1) a photo **studio**, (2) music **studio**

She works at a recording **studio** in Los Angeles.

anticipate

v. to expect or predict that something will happen; to tell in advance

synonym: forecast, predict, expect

(1) **anticipate** your kind cooperation, (2) **anticipate** a black future

We **anticipate** heavy snowfall tomorrow.

sequence

n. a series of related events, actions, numbers, etc., which have a particular order

synonym: arrangement, succession, series

(1) the **sequence** of the seasons, (2) the DNA **sequence**

We do move forward with those tasks in **sequence** next week.

appropriate

adj. suitable or proper in the circumstances; fitting

synonym: fitting, suitable, proper

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

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

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

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

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

emergence

n. the process or fact of coming into existence or becoming apparent

synonym: appearance, outgrowth, rise

(1) **emergence** as a national leader, (2) re-**emergence** of rampant inflation

The **emergence** of a new virus can cause concern for public health.

brain

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

synonym: intellect, mind, encephalon

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

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

demonstration

n. a display or show, often of a particular skill or product, intended to convince or persuade others

synonym: manifestation, presentation, show

(1) **demonstration** project, (2) a campus **demonstration**

Thousands of people attended the protest **demonstration** against the proposed policy.

trivial

adj. of little value or importance

synonym: insignificant, minor, unimportant

(1) a **trivial** man, (2) for **trivial** reasons

The problem seemed **trivial** initially, but it became a significant issue.

react

v. to take action in response to something

synonym: respond, reply, oppose

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

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

motor

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

synonym: actuator, engine, machine

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

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

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.

stick

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

synonym: pierce, adhere, stay

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

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

physically

adv. in a way related to a person's body or appearance rather than their mind

(1) **physically** and mentally, (2) stay **physically** fit

Having a **physically** healthy physique is essential for a great life.

stimming

n. a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation

synonym : self-stimulation, repetitive behaviors

(1) autistic **stimming**, (2) **stimming** therapy

Autistic children may engage in **stimming** behaviors, such as rocking or hand flapping, to self-regulate.

gravity

n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn

synonym : heaviness, attraction, weight

(1) the attraction of **gravity**, (2) preserve my **gravity**

The astronaut felt weightless in space due to the absence of **gravity**.

joint

adj. shared, held, or made between two or more people;
(noun) the point of connection between two bones or elements of a skeleton

synonym : collaborative, cooperative, combined

(1) a **joint** venture, (2) the bone of a **joint**

After the summit meeting, the prime ministers issued a **joint** statement.

collapse

v. to fall down or give way suddenly, often after breaking apart

synonym : tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**

The roof finally **collapsed** after three days and three nights of heavy snowfall.

tricky

adj. requiring care and skill because challenging to do or deal with

synonym : thorny, problematic, crafty

(1) **tricky** problem, (2) a **tricky** recipe to follow

We have discussed the entirety of this **tricky** problem.

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**.

controller

n. a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting

synonym : regulator, manager, handler

(1) **controller** board, (2) financial **controller**

The gaming **controller** was the missing piece I needed to enjoy my video games fully.

neural

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

synonym : sensory, neuronic, nervous

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

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

spine

n. the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column

synonym : backbone, vertebra, column

(1) the **spine** of a book, (2) a cervical **spine** injury

She has a minor curved **spine** due to desk work for many

years.

generator

n. a machine that produces electricity

synonym: dynamo, alternator, creator

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

generator

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

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.

evolution

n. a gradual process of transformation of living things

synonym: elaboration, expansion, transition

(1) human **evolution**, (2) **evolution** theory

They study the **evolution** of the universe.

genetic

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

synonym: hereditary, genetical, inborn

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

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

algorithm

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

synonym: logic, method, rule

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

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

suppose

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

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

concept

n. an idea or principle associated with something abstract
synonym : idea, notion, vision

(1) learn new **concepts**, (2) **concept** car
One such rapidly growing **concept** is quantum cryptography.

individual

n. a single person or thing, as distinct from a group
synonym : person, being, self

(1) a private **individual**, (2) **individual** freedom
As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

random

adj. made, done, or happening without method, conscious decision, or any regular pattern
synonym : incidental, arbitrary, unanticipated

(1) a **random** choice, (2) bombs fell at **random**
To find drunk drivers, police conduct **random** tests.

hook

n. a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook
synonym : buckle, pin, curve

(1) a hat **hook**, (2) the curved shape of a **hook**
Please hang your towel on a **hook**.

virtual

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

(1) a **virtual** image, (2) trading of **virtual** currencies
She is the **virtual** president of the company.

creature

n. a living being, especially an animal
synonym :

being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

boring

adj. lacking interest or excitement; tedious or dull

synonym: dull, tedious, monotonous

(1) **boring** work, (2) **boring** day

The lecture was so **boring** that many people fell asleep.

reproduce

v. to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

synonym: duplicate, breed, imitate

(1) **reproduce** the painting, (2) **reproduce** by myself

By dividing and creating copies of themselves, bacteria **reproduce**.

mutation

n. the way in which genes of a person, plant, animal, or other organism change and produce permanent differences

synonym: metamorphosis, transformation, alteration

(1) **mutation** of DNA, (2) hereditary **mutation**

Radiation often promotes genetic **mutations** in plants and animals.

recombine

v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

(1) **recombine** at the surface, (2) ability to **recombine**

Some scientists argue that the genes in food should not be artificially **recombined**.

introduction

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

synonym : initiation, preamble, prologue

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

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

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.

straight

adj. extending or moving in one direction without bending or curving; having no deviations

synonym : linear, honest, consecutive

(1) a **straight** line, (2) **straight** for two months

He was sick for five **straight** days.

hop

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

synonym : jump, bounce, skip

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

The rabbit **hopped** over the fence.

demonstrate

v. to display something or give an exhibition to an interested audience

synonym : show, illustrate, display

(1) **demonstrate** a difference, (2) **demonstrate** mastery

How can you **demonstrate** that the earth is a sphere?

drawing

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

synonym : sketch, depiction, illustration

(1) technical **drawing**, (2) **drawing** for design
She is talented at **drawing** and has won several awards for her artwork.

eventually

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

synonym: finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed
The corporation **eventually** dominated the entire tobacco business.

tweak

v. to pinch or squeeze something sharply; to adjust something finely

synonym: nip, pinch, fine-tune

(1) **tweak** his cheek, (2) **tweak** the economy
He didn't **tweak** the plan, even though he had time.

evolutionary

adj. relating to or denoting how living things develop or change from earlier forms

synonym: developmental, mutative, transformative

(1) ecology and **evolutionary** biology, (2) the **evolutionary** process

Evolutionary algorithms can find ways to optimize that humans do not anticipate.

biped

n. an animal with two feet

synonym: hominoid

(1) **biped** robot, (2) a featherless **biped**

Biped walking encouraged the further evolution of humankind.

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.

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.

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.

challenging

adj. difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle

synonym : difficult, demanding, arduous

(1) **challenging** task, (2) mentally **challenging**

The advanced math problem was **challenging**, but the student was determined to solve it.

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.

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.

standing

adj. existing or remaining upright; having a vertical position;
(noun) social, financial, or professional status or reputation

synonym : upright, vertical, (noun) position

(1) **standing** water, (2) his social **standing**

The **standing** concert was packed with fans.

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.

activate

v. make something start working, more active or dynamic

synonym : mobilize, stimulate, initiate

(1) **activate** a receptor, (2) **activate** a motor

You must **activate** the software with a 16-digit key before you can use it.

interactive

adj. acting reciprocally; mutually responsive

synonym : reciprocal, responsive, mutual

(1) **interactive** experience, (2) an **interactive** device

The new video game has an **interactive** storyline that allows players to make choices that affect the game's outcome.

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.

obvious

adj. easy to see, discover or understand

synonym : apparent, conspicuous, evident

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

There are **obvious** differences between the two

wine-producing regions.

hire

v. to give somebody a job

synonym: employ, engage, lease

(1) **hire** a guide, (2) **hire** a car by the hour

We should always be prepared to **hire** talented recruits.

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

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**.

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.

biology

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

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

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

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close

relatives.

norm

n. something that is regarded as usual, typical, or standard

synonym : criterion, mean, standard

(1) **norm** of action, (2) cultural **norm**

The systems we have developed has accepted as industry **norms**.

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.

mechanical

adj. operated by a machine, relating to or concerned with machinery or tools

synonym : machinelike, automated, automatic

(1) a **mechanical** style of writing, (2) the influence of **mechanical** action

A **mechanical** engineer is still in demand in many companies.

realistic

adj. having or showing a sensible and practical idea that is possible to achieve

synonym : practical, pragmatic, down-to-earth

(1) a **realistic** goal, (2) a **realistic** goal

That story was so **realistic**, and it was scary.

concentration

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

synonym : attention, engagement, assiduity

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

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

movement

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

synonym : motion, progression, action

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

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

rag

n. a piece of cloth, especially an old one, torn or cut into strips and used for cleaning

synonym : cloth, fragment

(1) a **rag** of cloud, (2) **rag** doll

He used an old **rag** to clean the grease off the car's engine.

doll

n. a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive

synonym : puppet, dolly, toy

(1) plastic **doll**, (2) rag **doll**

The antique **doll** was worth thousands of dollars.

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.

autonomous

adj. capable of governing or controlling its affairs

synonym : independent, self-governing, self-reliant

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

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

backward

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

synonym : back, rearward, in reverse

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

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

counterbalance

v. to offset or balance the effect of something by applying an equal or opposite force or effect; to provide a counteracting or balancing influence for something;
(*noun*) a weight or force that is used to balance or offset another weight or force

synonym : offset, counteract, neutralize

(1) **counterbalance** the seriousness of the topic,

(2) **counterbalance** the effects

The heavyweights on one end of the scale **counterbalanced** the lighter weights on the other end.

graphics

n. images, designs, or drawings used in websites, books, magazines, etc.

synonym : drawings, illustrations, pictures

(1) computer **graphics**, (2) **graphics** engine

My dream is to become a great **graphics** designer like her.

reaction

n. a response that reveals a person's feelings or attitude;
(in chemistry) a process in which one or more substances are changed into others

synonym : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

stealth

n. the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety

synonym : sneakiness, secrecy, furtiveness

(1) **stealth** technology, (2) **stealth** bomber

The thief moved with **stealth**, careful not to make any noise and alert anyone to his presence.

slippery

adj. difficult to hold firmly or stand on because it is wet or smooth; not to be trusted

synonym : smooth, glistening, furtive

(1) a **slippery** customer, (2) **slippery** ice

How extraordinarily **slippery** a liar the camera is.

fascinating

adj. extremely interesting

synonym : alluring, intriguing, captivating

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

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

immediately

adv. now or without delay

synonym : directly, instantly, promptly

(1) **immediately** recall a product, (2) write him an answer

immediately

A suspension order from the court is effective **immediately**.

stuntman

n. a professional performer who performs dangerous and often physically demanding tasks or stunts in place of an actor in a film or television show

synonym : stunt double, body double, stand-in

(1) **stuntman** performance, (2) skilled **stuntman**

The professional **stuntman** jumped from the burning building and landed safely on the airbag below.

stunt

n. a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a physical or mental sense

synonym : feat, accomplishment, (verb) hinder

(1) skydiving **stunt**, (2) **stunt** brain growth

The daredevil attempted a dangerous **stunt** by jumping off a tall building with a parachute.

digital

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

synonym : numerical, computerized, cyber

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

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

release

v. to set free or allow to escape from confinement

synonym : free, let go, discharge

(1) **release** a prisoner, (2) **release** CO2 into the air

The animal rights group worked to **release** the dolphins back into the wild.

explosion

n. a violent release induced by a chemical or nuclear reaction

synonym : burst, eruption, outbreak

(1) a lot of **explosions**, (2) site of the **explosion**

A broken gas pipe triggered the **explosion**.

applied

adj. of or relating to a subject of study, especially a science, that is used in a practical way

synonym : practical, practiced, used

(1) **applied** research, (2) **applied** physics

Military technology eventually became the foundation for **applied** technology that supported people's lives.

midair

n. some point in the air; above ground level

(1) a **midair** collision, (2) thrown out into **midair**

She flawlessly performed a **midair** somersault.

limp

adj. having no strength or energy; walking with difficulty because of pain, injury, or disability in one's leg or foot

synonym : unsteady, weak, faltering

(1) **limp** handshake, (2) **limp** hair

The steak was so undercooked that it was almost raw and

had a **limp** texture.

landing

n. the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest

synonym: touchdown, arrival, descent

(1) **landing** gear, (2) emergency **landing**

The plane made a rough **landing**, and everyone clapped once we came to a stop.

realism

n. the attitude or behavior of accepting circumstances as they are and being prepared to deal with them accordingly; (in arts) the general attempt to depict subjects truthfully in different forms of the arts

synonym: verisimilitude, verismo, genuineness

(1) experiential **realism**, (2) have more **realism**

The invention of the camera changed the course of painting in pursuing **realism**.

achieve

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

synonym: accomplish, attain, reach

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

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

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

experiment

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

synonym: experimentation, investigation

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

His **experiments** showed highly positive results.

render

v. to bring someone or something into a particular state; to provide something such as service, help, etc.

synonym : deliver, give, provide

(1) **render** an assessment, (2) **render** the contract void

The jury must **render** a decision on this complex case.

automatically

adv. without needing a direct human control

synonym : mechanically, unconsciously, spontaneously

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

Our subscription plan is **automatically** renewed.

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.

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.

struggle

v. to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction

synonym : toil, strive, compete

(1) **struggle** against discrimination, (2) **struggle** to get the job

He could not **struggle** against temptation.

organic

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

synonym : biological

(1) **organic** soils, (2) eat **organic** food
The kidney is an **organic** component of the body.

complexity

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

synonym : intricacy, sophistication, elaboration

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

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

bond

n. a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

synonym : bind, adhesion, attachment

(1) **bond** as a family, (2) global **bond** market

They had formed a friendship **bond**.

dam

n. a wall constructed over a river to block the flow of water, mainly used to generate energy

synonym : barricade, barrier, embankment

(1) **dam-building** program, (2) **dam** collapsing

The break in the **dam** threatened the valley.

bungee

n. a strong, elastic cord or rope used to leap or dive from a height, typically while attached to a harness or other safety equipment, providing a thrilling experience or a means of controlled descent

synonym : elastic cord, safety harness, cord with hooks

(1) **bungee** harness, (2) **bungee** cord

They set up a **bungee** jump attraction at the amusement park to attract thrill-seekers.

impressive

adj. arousing admiration due to size, quality, or skill

synonym : impactful, remarkable, exceptional

(1) **impressive** performances, (2) an **impressive** array of facts

The budget reduction was an **impressive** feat for our nation.

dive

v. to jump into the water with your head and arms going in first, or to move down to a deeper level underwater

synonym: dip, leap, plunge

(1) **dive** into anime communities, (2) **dive** off a cliff

The sperm whale can **dive** to 1,000 meters.

afterward

adv. after the time mentioned

synonym: later, thereafter, following

(1) a few years **afterward**, (2) go there **afterward**

We will explain the countermeasure concerning this problem **afterward**.

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.

sever

v. to break or separate something by cutting, especially suddenly and forcibly

synonym: cut apart, separate, detach

(1) **sever** a rope, (2) **sever** a positive relationship

He **severed** a branch from a tree quickly.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

(1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

degree

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

synonym: level, qualification, diploma

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

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

aid

n. things sent to help countries in need, notably food or money; support

synonym: helper, resource, assistance

(1) financial **aid**, (2) country-by-country **aid** programs

Pakistan's **aid** budget was still being reviewed.

surgeon

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

synonym: sawbones, doctor

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

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

cerebral

adj. relating to the brain or intellect; intellectual or studious rather than emotional or physical

synonym: brain, mental, intellectual

(1) **cerebral** palsy, (2) **cerebral** cortex

The patient experienced a **cerebral** hemorrhage and required surgery.

palsy

n. a condition characterized by the loss or impairment of movement or sensation due to damage or disease affecting the nervous system; paralysis or weakness

synonym: paralysis, tremor, twitch

(1) muscle **palsy**, (2) cerebral **palsy**

Some people with Parkinson's disease may experience tremors and **palsy** in their limbs.

outcome

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

synonym: result, consequence, effect

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

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

operate

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

synonym: work, use, employ

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

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

gait

n. a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion

synonym : pace, stride, step

(1) awkward **gait**, (2) brisk **gait**

The older woman's **gait** was slow and unsteady.

classic

adj. judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type

synonym : definitive, traditional, typical

(1) a **classic** experiment, (2) Chinese **classic** literature

He displayed the **classic** symptoms of depression.

quotation

n. a group of words taken from a text or speech and repeated by someone other than the original author or speaker

synonym : excerpt, passage, quote

(1) double **quotation** marks, (2) take a **quotation**

He included a **quotation** from the book in his essay.

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.

improve

v. to make or become better

synonym : enhance, ameliorate, enrich

(1) **improve** a process, (2) **improve** the test score

We want to **improve** ties between our two countries.

commit

v. to do something illegal or wrong

synonym: engage, carry out, execute

(1) **commit** suicide, (2) **commit** mistakes

The military has **committed** an abuse of human rights.

surgery

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

synonym: operation, (medical) procedure

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

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

ballet

n. a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing

(1) a **ballet** enthusiast, (2) **ballet** lessons

She is a leading female classical **ballet** dancer

unintentional

adj. not done or made on purpose; accidental

synonym: accidental, unforeseen, spontaneous

(1) avoid **unintentional** harm, (2) **unintentional** insult

The mistake was **unintentional** and made in good faith.

contour

n. the outline of its shape or form; a line drawn on a map connecting points of equal height

synonym: outline, silhouette, shape

(1) the **contour** of the earth's surface, (2) **contour** lines

The **contour** of the Atlantic coast of America is very complicated.

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.

balance

n. a condition in which everything has the same weight or force; something left after other parts have been taken away

synonym: equilibrium, counterpoise, remainder

(1) the **balance** of power, (2) asset on the company's **balance** sheet

Try to keep a **balance** between work and off.

emerge

v. to move out of or away from something and become visible

synonym: arise, occur, appear

(1) **emerge** as a butterfly, (2) **emerge** from poverty

During colonial eras, new migratory patterns **emerged**.

bizarre

adj. very strange or unusual

synonym: abnormal, freaky, outlandish

(1) the story is **bizarre**, (2) **bizarre** behavior

The truth was more **bizarre** than expected.

climax

n. the most intense or exciting moment of an event or experience; the point of highest dramatic tension or emotional intensity in a story, plot, or performance

synonym: finale, pinnacle, apex

(1) emotional **climax**, (2) reach a **climax**

The **climax** of the movie had everyone on the edge of their seats.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

Session 2: Spelling

1. the curved shape of a h__k *n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook

2. st____h bomber *n.* the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety

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

4. h__e a car by the hour *v.* to give somebody a job

5. 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

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

7. st__t brain growth *n.* a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a physical or mental sense

ANSWERS: 1. hook, 2. stealth, 3. surgeon, 4. hire, 5. AI, 6. humming, 7. stunt

8. skilled st____an *n.* a professional performer who performs dangerous and often physically demanding tasks or stunts in place of an actor in a film or television show
9. em___e from poverty *v.* to move out of or away from something and become visible
10. dem_____ion project *n.* a display or show, often of a particular skill or product, intended to convince or persuade others
11. l__p handshake *adj.* having no strength or energy; walking with difficulty because of pain, injury, or disability in one's leg or foot
12. cou_____nce the effects *v.* to offset or balance the effect of something by applying an equal or opposite force or effect; to provide a counteracting or balancing influence for something; (noun) a weight or force that is used to balance or offset another weight or force
13. aut_____lly adjusted *adv.* without needing a direct human control
14. tw__k the economy *v.* to pinch or squeeze something sharply; to adjust something finely
15. the stock market co_____sed *v.* to fall down or give way suddenly, often after breaking apart
16. short video c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
17. b__d as a family *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

ANSWERS: 8. stuntman, 9. emerge, 10. demonstration, 11. limp, 12. counterbalance, 13. automatically, 14. tweak, 15. collapse, 16. clip, 17. bond

31. inc_____ly cheerful character *adv.* in a way that is very difficult to believe; exceedingly or extremely
32. write him an answer imm_____ly *adv.* now or without delay
33. a circular mo_____nt *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
34. ap_____d physics *adj.* of or relating to a subject of study, especially a science, that is used in a practical way
35. h_p on one foot *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
36. dr_____g for design *n.* the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
37. a r_g of cloud *n.* a piece of cloth, especially an old one, torn or cut into strips and used for cleaning
38. im_____e a process *v.* to make or become better
39. the co_____r of the earth's surface *n.* the outline of its shape or form; a line drawn on a map connecting points of equal height
40. a gr__d meal *adj.* important and large in size, scope, or extent
41. his social st_____ng *adj.* existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation

ANSWERS: 31. incredibly, 32. immediately, 33. movement, 34. applied, 35. hop, 36. drawing, 37. rag, 38. improve, 39. contour, 40. grand, 41. standing

42. ant_____te your kind cooperation *v.* to expect or predict that something will happen; to tell in advance
43. improved student ou_____es *n.* the result or effect of an action, event, etc.
44. chemical re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
45. an_____on film *n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
46. tr_____y problem *adj.* requiring care and skill because challenging to do or deal with
47. ob_____s reasons *adj.* easy to see, discover or understand
48. de_____e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
49. the se_____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
50. ex_____ng football player *adj.* causing a lot of interest or excitement
51. inc_____le amount *adj.* unbelievable; enormous
52. cardiac su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures

ANSWERS: 42. anticipate, 43. outcome, 44. reaction, 45. animation, 46. tricky, 47. obvious, 48. decide, 49. sequence, 50. exciting, 51. incredible, 52. surgery

53. preserve my gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
54. a lot of ex_____ons *n.* a violent release induced by a chemical or nuclear reaction
55. st_____h technology *n.* the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety
56. em_____ce as a national leader *n.* the process or fact of coming into existence or becoming apparent
57. a featherless bi__d *n.* an animal with two feet
58. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
59. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
60. ba____t lessons *n.* a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing
61. an excellent brain su_____n *n.* a doctor who is trained to perform medical operations that involve cutting open a person's body
62. h_p from one place to another *v.* to jump lightly and quickly on one foot or both feet; to move rapidly from one place to another; to travel using an aircraft, bus, etc.
63. a hat h__k *n.* a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook

ANSWERS: 53. gravity, 54. explosion, 55. stealth, 56. emergence, 57. biped, 58. eventually, 59. engineer, 60. ballet, 61. surgeon, 62. hop, 63. hook

64. designed spe_____lly for men *adv.* only associated with or meant for one thing
65. mentally cha_____ng *adj.* difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle
66. dangerously unp_____ble person *adj.* not capable of being foreseen or calculated; not regular or certain
67. ce_____al cortex *adj.* relating to the brain or intellect; intellectual or studious rather than emotional or physical
68. global b__d market *n.* a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money
69. experiential re_____m *n.* the attitude or behavior of accepting circumstances as they are and being prepared to deal with them accordingly; (in arts) the general attempt to depict subjects truthfully in different forms of the arts
70. l__p hair *adj.* having no strength or energy; walking with difficulty because of pain, injury, or disability in one's leg or foot
71. d_m-building program *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
72. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 64. specifically, 65. challenging, 66. unpredictable, 67. cerebral, 68. bond, 69. realism, 70. limp, 71. dam, 72. process

73. the DNA se____ce
n. a series of related events, actions, numbers, etc., which have a particular order
74. a campus dem_____ion
n. a display or show, often of a particular skill or product, intended to convince or persuade others
75. victim of identity th__t
n. the act of taking anything from someone or somewhere unlawfully; stealing
76. st_____ng water
adj. existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation
77. app_____te behavior
adj. suitable or proper in the circumstances; fitting
78. eat or_____c food
adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
79. imm_____ly recall a product
adv. now or without delay
80. ap_____d research
adj. of or relating to a subject of study, especially a science, that is used in a practical way
81. st_____ng therapy
n. a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation
82. ne___l networks in AI
adj. of or relating to a nerve or the nervous system that includes the brain

ANSWERS: 73. sequence, 74. demonstration, 75. theft, 76. standing, 77. appropriate, 78. organic, 79. immediately, 80. applied, 81. stimming, 82. neural

83. in____ct with one another *v.* to communicate or react with somebody
84. ev___e *v.* to develop gradually, or to cause the development of something or someone gradually
85. the attraction of gr____y *n.* the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
86. bo___g day *adj.* lacking interest or excitement; tedious or dull
87. an app_____te time *adj.* suitable or proper in the circumstances; fitting
88. gr____cs engine *n.* images, designs, or drawings used in websites, books, magazines, etc.
89. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
90. d__e off a cliff *v.* to jump into the water with your head and arms going in first, or to move down to a deeper level underwater
91. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
92. cha_____ng task *adj.* difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle
93. emotional cl___x *n.* the most intense or exciting moment of an event or experience; the point of highest dramatic tension or emotional intensity in a story, plot, or performance

ANSWERS: 83. interact, 84. evolve, 85. gravity, 86. boring, 87. appropriate, 88. graphics, 89. mechanical, 90. dive, 91. excite, 92. challenging, 93. climax

94. ind_____al freedom *n.* a single person or thing, as distinct from a group
95. ev___e over the past decade *v.* to develop gradually, or to cause the development of something or someone gradually
96. cerebral pa__y *n.* a condition characterized by the loss or impairment of movement or sensation due to damage or disease affecting the nervous system; paralysis or weakness
97. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
98. la_____g gear *n.* the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest
99. ex_____ng news *adj.* causing a lot of interest or excitement
100. ac_____e milestones *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
101. DC mo__r control *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
102. go there af_____rd *adv.* after the time mentioned
103. ready to co_____se *v.* to fall down or give way suddenly, often after breaking apart

ANSWERS: 94. individual, 95. evolve, 96. palsy, 97. algorithm, 98. landing, 99. exciting, 100. achieve, 101. motor, 102. afterward, 103. collapse

104. the ba_____e of power *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
105. brisk g__t *n.* a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion
106. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
107. self-int_____ion *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
108. an_____on studio *n.* the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave
109. record driving aut_____lly *adv.* without needing a direct human control
110. cr_____re of habit *n.* a living being, especially an animal
111. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
112. financial a_d *n.* things sent to help countries in need, notably food or money; support
113. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

ANSWERS: 104. balance, 105. gait, 106. mechanical, 107. introduction, 108. animation, 109. automatically, 110. creature, 111. biology, 112. aid, 113. movement

114. a gr__h sample *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
115. d__e into anime communities *v.* to jump into the water with your head and arms going in first, or to move down to a deeper level underwater
116. ob____le avoidance *n.* a thing that blocks one's way or prevents or hinders progress
117. d_m collapsing *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
118. se__r a positive relationship *v.* to break or separate something by cutting, especially suddenly and forcibly
119. re____ve factors *adj.* considered and evaluated through comparison with something else
120. 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
121. for spe____lly American customers *adv.* only associated with or meant for one thing
122. tie c__p *n.* a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip
123. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material

ANSWERS: 114. graph, 115. dive, 116. obstacle, 117. dam, 118. sever, 119. relative, 120. breakthrough, 121. specifically, 122. clip, 123. stick

124. a few years af_____rd *adv.* after the time mentioned
125. a jo__t venture *adj.* shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton
126. unp_____ble outcome *adj.* not capable of being foreseen or calculated; not regular or certain
127. re__t at a high temperature *v.* to take action in response to something
128. ac_____te a receptor *v.* make something start working, more active or dynamic
129. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
130. habitual rep_____on *n.* the act of doing or saying something many times
131. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
132. ecology and evo_____ary biology *adj.* relating to or denoting how living things develop or change from earlier forms
133. double qu_____on marks *n.* a group of words taken from a text or speech and repeated by someone other than the original author or speaker
134. thrown out into mi____r *n.* some point in the air; above ground level
135. a vi_____l image *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
136. ne____l stem cells *adj.* of or relating to a nerve or the nervous system that includes the brain

ANSWERS: 124. afterward, 125. joint, 126. unpredictable, 127. react, 128. activate, 129. humming, 130. repetition, 131. generation, 132. evolutionary, 133. quotation, 134. midair, 135. virtual, 136. neural

137. or____c soils *adj.* of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals
138. h__e a guide *v.* to give somebody a job
139. a ra___m choice *adj.* made, done, or happening without method, conscious decision, or any regular pattern
140. financial con_____er *n.* a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting
141. a ge____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
142. art_____al flowers *adj.* not natural and made by human beings; not real but produced to resemble something
143. fas_____ng story *adj.* extremely interesting
144. re_____ce by myself *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
145. artificial cr____re *n.* a living being, especially an animal
146. ac_____te measurements *adj.* correct and exact in all details
147. uni_____nal insult *adj.* not done or made on purpose; accidental

ANSWERS: 137. organic, 138. hire, 139. random, 140. controller, 141. genetic, 142. artificial, 143. fascinating, 144. reproduce, 145. creature, 146. accurate, 147. unintentional

148. pr____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
149. awkward g__t *n.* a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion
150. gr__h theory *n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other
151. an imp____ve array of facts *adj.* arousing admiration due to size, quality, or skill
152. co____t mistakes *v.* to do something illegal or wrong
153. Chinese cl____c literature *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
154. an____e his soul *v.* to make something full of interest and energy
155. int____ve experience *adj.* acting reciprocally; mutually responsive
156. take a qu____on *n.* a group of words taken from a text or speech and repeated by someone other than the original author or speaker
157. at inc____le speed *adj.* unbelievable; enormous
158. technical dr____g *n.* the act of making a picture with a pencil, pen, or other instruments on paper, cardboard, or other material
159. ex____e the crowd *v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 148. predict, 149. gait, 150. graph, 151. impressive, 152. commit, 153. classic, 154. animate, 155. interactive, 156. quotation, 157. incredible, 158. drawing, 159. excite

160. in_____ct directly with customers *v.* to communicate or react with somebody
161. a co_____nt remark *adj.* feeling sure about your abilities or qualities or having trust in people, plans, or the future
162. bombs fell at ra_____m *adj.* made, done, or happening without method, conscious decision, or any regular pattern
163. have ge_____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
164. random number ge_____or *n.* a machine that produces electricity
165. the professor of su_____y *n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
166. st_____le to get the job *v.* to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
167. cou_____nce the seriousness of the topic *v.* to offset or balance the effect of something by applying an equal or opposite force or effect; to provide a counteracting or balancing influence for something; (noun) a weight or force that is used to balance or offset another weight or force
168. st_____ht for two months *adj.* extending or moving in one direction without bending or curving; having no deviations

ANSWERS: 160. interact, 161. confident, 162. random, 163. genetic, 164. generator, 165. surgery, 166. struggle, 167. counterbalance, 168. straight

169. a tr___y recipe to follow *adj.* requiring care and skill because challenging to do or deal with
170. human ev_____on *n.* a gradual process of transformation of living things
171. autistic st_____ng *n.* a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation
172. bu___e harness *n.* a strong, elastic cord or rope used to leap or dive from a height, typically while attached to a harness or other safety equipment, providing a thrilling experience or a means of controlled descent
173. de___e centigrade *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
174. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
175. 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: 169. tricky, 170. evolution, 171. stimming, 172. bungee, 173. degree, 174. brain, 175. process

176. rag d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
177. an ac____ic discussion *adj.* associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
178. plastic d__l *n.* a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive
179. skydiving st__t *n.* a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a physical or mental sense
180. exp_____nt design *n.* the scientific test conducted to observe what happens and gain new knowledge
181. re___r an assessment *v.* to bring someone or something into a particular state; to provide something such as service, help, etc.
182. the bone of a jo__t *adj.* shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton
183. re-em_____ce of rampant inflation *n.* the process or fact of coming into existence or becoming apparent
184. co_____r lines *n.* the outline of its shape or form; a line drawn on a map connecting points of equal height

ANSWERS: 176. doll, 177. academic, 178. doll, 179. stunt, 180. experiment, 181. render, 182. joint, 183. emergence, 184. contour

185. development of aut_____us vehicles
adj. capable of governing or controlling its affairs
186. a di_____l watch
adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
187. stay phy_____ly fit
adv. in a way related to a person's body or appearance rather than their mind
188. cognitive com_____ty
n. the state or quality of being complicated or intricate and difficult to understand
189. an int_____nce test
n. the ability to learn, comprehend, or make judgments or conclusions based on reasons
190. a civil en_____er
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
191. imp_____ve performances
adj. arousing admiration due to size, quality, or skill
192. a sl_____ry customer
adj. difficult to hold firmly or stand on because it is wet or smooth; not to be trusted
193. the evo_____ary process
adj. relating to or denoting how living things develop or change from earlier forms
194. art_____al environment
adj. not natural and made by human beings; not real but produced to resemble something
195. his research area of
con_____ion
n. the ability to focus all your time and energy on one thing without thinking about anything else.

ANSWERS: 185. autonomous, 186. digital, 187. physically, 188. complexity, 189. intelligence, 190. engineer, 191. impressive, 192. slippery, 193. evolutionary, 194. artificial, 195. concentration

196. muscle pa__y *n.* a condition characterized by the loss or impairment of movement or sensation due to damage or disease affecting the nervous system; paralysis or weakness
197. site of the ex_____on *n.* a violent release induced by a chemical or nuclear reaction
198. emergency la_____g *n.* the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest
199. the sp__e of a book *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
200. dem_____te mastery *v.* to display something or give an exhibition to an interested audience
201. learn new co_____ts *n.* an idea or principle associated with something abstract
202. hereditary mu_____on *n.* the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
203. bi__d robot *n.* an animal with two feet
204. major revenue ge_____or *n.* a machine that produces electricity
205. copyrighted so_____re *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
206. reach a cl____x *n.* the most intense or exciting moment of an event or experience; the point of highest dramatic tension or emotional intensity in a story, plot, or performance

ANSWERS: 196. palsy, 197. explosion, 198. landing, 199. spine, 200. demonstrate, 201. concept, 202. mutation, 203. biped, 204. generator, 205. software, 206. climax

207. sl____ly alkaline soils *adv.* in a small degree or extent; a little
208. bu___e cord *n.* a strong, elastic cord or rope used to leap or dive from a height, typically while attached to a harness or other safety equipment, providing a thrilling experience or a means of controlled descent
209. talented ph_____st *n.* a scientist who specializes in the field of physics
210. development of the ne____s system *adj.* worried and anxious about something; relating to the nerves
211. a mo__r mechanic *n.* a device that converts electricity, fuel, etc. into movement and makes a machine, vehicle, etc. work
212. ac_____te a motor *v.* make something start working, more active or dynamic
213. trigger a re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
214. re_____e CO2 into the air *v.* to set free or allow to escape from confinement
215. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
216. su_____e beforehand *v.* to think that something is likely to be actual or possible
217. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on

ANSWERS: 207. slightly, 208. bungee, 209. physicist, 210. nervous, 211. motor, 212. activate, 213. reaction, 214. release, 215. brain, 216. suppose, 217. eventually

218. series of exp_____nts	<i>n.</i> the scientific test conducted to observe what happens and gain new knowledge
219. st_____an performance	<i>n.</i> a professional performer who performs dangerous and often physically demanding tasks or stunts in place of an actor in a film or television show
220. com_____ty theory	<i>n.</i> the state or quality of being complicated or intricate and difficult to understand
221. ability to re_____ne	<i>v.</i> to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
222. ac_____ic probation	<i>adj.</i> associated with schools, colleges, and universities, especially studying and thinking, not with practical skills
223. mu_____on of DNA	<i>n.</i> the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
224. re____r the contract void	<i>v.</i> to bring someone or something into a particular state; to provide something such as service, help, etc.
225. bre_____ugh discovery	<i>n.</i> a sudden, dramatic, and important discovery or development that helps to improve a situation or provide an answer to a problem
226. re_____e a prisoner	<i>v.</i> to set free or allow to escape from confinement
227. avoid uni_____nal harm	<i>adj.</i> not done or made on purpose; accidental

ANSWERS: 218. experiment, 219. stuntman, 220. complexity, 221. recombine, 222. academic, 223. mutation, 224. render, 225. breakthrough, 226. release, 227. unintentional

228. a cervical sp__e injury *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
229. a private ind_____al *n.* a single person or thing, as distinct from a group
230. a mi___r collision *n.* some point in the air; above ground level
231. ba_____rd angle *adv.* at, to, or toward the direction or place that is behind or rear
232. op_____e 24 hours a day *v.* to work in a particular way; to supervise something
233. 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
234. computer gr_____cs *n.* images, designs, or drawings used in websites, books, magazines, etc.
235. con_____er board *n.* a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting
236. 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

ANSWERS: 228. spine, 229. individual, 230. midair, 231. backward, 232. operate, 233. AI, 234. graphics, 235. controller, 236. decide

237. so_____re architect *n.* a set of computer programs and associated documentation and data for doing particular computational jobs
238. si_____te a future scenario *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
239. an int_____ve device *adj.* acting reciprocally; mutually responsive
240. completely fas_____ng to me *adj.* extremely interesting
241. 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
242. increase sl_____ly *adv.* in a small degree or extent; a little
243. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
244. r_g doll *n.* a piece of cloth, especially an old one, torn or cut into strips and used for cleaning
245. bachelor's de____e *n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
246. an_____e the body *v.* to make something full of interest and energy

ANSWERS: 237. software, 238. simulate, 239. interactive, 240. fascinating, 241. develop, 242. slightly, 243. predict, 244. rag, 245. degree, 246. animate

247. an ob_____le to progress *n.* a thing that blocks one's way or prevents or hinders progress
248. for tr_____l reasons *adj.* of little value or importance
249. theoretical ph_____st *n.* a scientist who specializes in the field of physics
250. si_____te climate change *v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes
251. get inc_____ly insecure *adv.* in a way that is very difficult to believe; exceedingly or extremely
252. bo____g work *adj.* lacking interest or excitement; tedious or dull
253. n__m of action *n.* something that is regarded as usual, typical, or standard
254. a photo st____o *n.* a room or building where creative or artistic work is produced; a television or radio production company
255. re_____ce the painting *v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process
256. tw__k his cheek *v.* to pinch or squeeze something sharply; to adjust something finely
257. provide ac_____te information *adj.* correct and exact in all details
258. di_____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet

ANSWERS: 247. obstacle, 248. trivial, 249. physicist, 250. simulate, 251. incredibly, 252. boring, 253. norm, 254. studio, 255. reproduce, 256. tweak, 257. accurate, 258. digital

259. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
260. music st___o *n.* a room or building where creative or artistic work is produced; a television or radio production company
261. get ne_____s *adj.* worried and anxious about something; relating to the nerves
262. con_____ion of armaments *n.* the ability to focus all your time and energy on one thing without thinking about anything else.
263. walk ba_____rd *adv.* at, to, or toward the direction or place that is behind or rear
264. feel co_____nt *adj.* feeling sure about your abilities or qualities or having trust in people, plans, or the future
265. ant_____te a black future *v.* to expect or predict that something will happen; to tell in advance
266. manually op_____e a machine *v.* to work in a particular way; to supervise something
267. se__r a rope *v.* to break or separate something by cutting, especially suddenly and forcibly
268. th__t of designs *n.* the act of taking anything from someone or somewhere unlawfully; stealing
269. int_____ion education *n.* a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market

ANSWERS: 259. intelligence, 260. studio, 261. nervous, 262. concentration, 263. backward, 264. confident, 265. anticipate, 266. operate, 267. sever, 268. theft, 269. introduction

270. co___t suicide *v.* to do something illegal or wrong
271. a remote re____ve *adj.* considered and evaluated through comparison with something else
272. 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
273. dem_____te a difference *v.* to display something or give an exhibition to an interested audience
274. have more re_____m *n.* the attitude or behavior of accepting circumstances as they are and being prepared to deal with them accordingly; (in arts) the general attempt to depict subjects truthfully in different forms of the arts
275. a ba___t enthusiast *n.* a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing
276. gr__d bargain *adj.* important and large in size, scope, or extent
277. ce_____al palsy *adj.* relating to the brain or intellect; intellectual or studious rather than emotional or physical
278. a tr_____l man *adj.* of little value or importance
279. a st_____ht line *adj.* extending or moving in one direction without bending or curving; having no deviations
280. cultural n__m *n.* something that is regarded as usual, typical, or standard

ANSWERS: 270. commit, 271. relative, 272. generation, 273. demonstrate, 274. realism, 275. ballet, 276. grand, 277. cerebral, 278. trivial, 279. straight, 280. norm

281. a cl____c experiment *adj.* judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type
282. im____e the test score *v.* to make or become better
283. ac____e success *v.* to successfully complete a task or goal, often through hard work, perseverance, and dedication; to attain or accomplish something that one has set out to do
284. a re____ic goal *adj.* having or showing a sensible and practical idea that is possible to achieve
285. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
286. asset on the company's ba____e sheet *n.* a condition in which everything has the same weight or force; something left after other parts have been taken away
287. ev____on theory *n.* a gradual process of transformation of living things
288. sl____ry ice *adj.* difficult to hold firmly or stand on because it is wet or smooth; not to be trusted
289. trading of vi____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
290. su____e you're right *v.* to think that something is likely to be actual or possible

ANSWERS: 281. classic, 282. improve, 283. achieve, 284. realistic, 285. stick, 286. balance, 287. evolution, 288. slippery, 289. virtual, 290. suppose

291. a desirable ou_____e *n.* the result or effect of an action, event, etc.
292. pr_____le cause of a fire *adj.* likely to happen or likely to be true
293. 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
294. country-by-country a_d programs *n.* things sent to help countries in need, notably food or money; support
295. an aut_____us judiciary *adj.* capable of governing or controlling its affairs
296. bi_____e behavior *adj.* very strange or unusual
297. his conclusion was ob_____s *adj.* easy to see, discover or understand

ANSWERS: 291. outcome, 292. probable, 293. develop, 294. aid, 295. autonomous, 296. bizarre, 297. obvious

Session 3: Fill in the Blanks

1. Sensors convert physical phenomena into _____ signals.
adj. processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
2. He could not _____ against temptation.
v. to make a great effort to do something when it is difficult, or there are a lot of problems; to use force or violence to break away from restraint or constriction
3. What do you _____ the culprit's motive was?
v. to think that something is likely to be actual or possible
4. It's notoriously challenging to _____ birth rates.
v. to state beforehand that something will happen in the future, mainly based on knowledge or experience
5. We want to _____ ties between our two countries.
v. to make or become better
6. Radiation often promotes genetic _____ in plants and animals.
n. the way in which genes of a person, plant, animal, or other organism change and produce permanent differences
7. 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

ANSWERS: 1. digital, 2. struggle, 3. suppose, 4. predict, 5. improve, 6. mutations, 7. intelligence,

8. Some scientists argue that the genes in food should not be artificially _____.
- v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
9. It would be _____ to dress nicely for the wedding.
- adj.* suitable or proper in the circumstances; fitting
10. In junior high school, we had to dissect a frog in _____ class.
- n.* the scientific study of life and the natural processes of living things
11. There was a chemical _____ of the lime with the groundwater.
- n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
12. The _____ of a new virus can cause concern for public health.
- n.* the process or fact of coming into existence or becoming apparent
13. The steak was so undercooked that it was almost raw and had a _____ texture.
- adj.* having no strength or energy; walking with difficulty because of pain, injury, or disability in one's leg or foot
14. His _____ showed highly positive results.
- n.* the scientific test conducted to observe what happens and gain new knowledge
15. The news of her promotion _____ her.
- v.* to make someone feel suddenly enthusiastic or eager

ANSWERS: 8. recombined, 9. appropriate, 10. biology, 11. reaction, 12. emergence, 13. limp, 14. experiments, 15. excited

16. The budget reduction was an _____ feat for our nation.

adj. arousing admiration due to size, quality, or skill

17. The professional _____ jumped from the burning building and landed safely on the airbag below.

n. a professional performer who performs dangerous and often physically demanding tasks or stunts in place of an actor in a film or television show

18. The older woman's _____ was slow and unsteady.

n. a person's manner of walking, running, or moving on foot; a particular pattern or style of movement or locomotion

19. The corporation _____ dominated the entire tobacco business.

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

20. Several cities are experiencing _____ high unemployment rates.

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

21. There was a disturbance of _____ function.

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

22. The roof finally _____ after three days and three nights of heavy snowfall.

v. to fall down or give way suddenly, often after breaking apart

23. Thousands of people attended the protest _____ against the proposed policy.

n. a display or show, often of a particular skill or product, intended to convince or persuade others

ANSWERS: 16. impressive, 17. stuntman, 18. gait, 19. eventually, 20. incredibly, 21. neural, 22. collapsed, 23. demonstration

24. Her response revealed _____ idiocy.

adj. unbelievable; enormous

25. This exam requires excellent _____ to pass.

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

26. He is a skilled _____ that has many years of training and experience.

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

27. She flawlessly performed a _____ somersault.

n. some point in the air; above ground level

28. We can evaluate the performance of an _____ in terms of computation time.

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

29. I will work hard to _____ my goals and realize my dreams.

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

30. She is talented at _____ and has won several awards for her artwork.

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

31. He displayed the _____ symptoms of depression.

adj. judged or deserving to be regarded as one of the best or most important of its kind over a period of time; of a well-known type

ANSWERS: 24. incredible, 25. concentration, 26. surgeon, 27. midair, 28. algorithm, 29. achieve, 30. drawing, 31. classic

32. Our subscription plan is _____ renewed.

adv. without needing a direct human control

33. The problem seemed _____ initially, but it became a significant issue.

adj. of little value or importance

34. Energy-efficient _____ are needed to maximize the cruising distance of electric vehicles.

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

35. The kidney is an _____ component of the body.

adj. of or derived from biological substance; producing plants and animals for food and other items without the use of synthetic chemicals

36. We _____ heavy snowfall tomorrow.

v. to expect or predict that something will happen; to tell in advance

37. The military has _____ an abuse of human rights.

v. to do something illegal or wrong

38. He should _____ more with his colleagues.

v. to communicate or react with somebody

39. The break in the ____ threatened the valley.

n. a wall constructed over a river to block the flow of water, mainly used to generate energy

40. The plane made a rough _____ and everyone clapped once we came to a stop.

n. the act of coming to rest on the ground or another surface after being in flight or jumping; a platform or area of ground where a plane or spacecraft can come to rest

ANSWERS: 32. automatically, 33. trivial, 34. motors, 35. organic, 36. anticipate, 37. committed, 38. interact, 39. dam, 40. landing,

41. The gaming _____ was the missing piece I needed to enjoy my video games fully.
- n.* a person or device that manages or regulates the operation of a system, equipment, or machine; a high-level position within an organization responsible for overseeing management, operations, and reporting
42. The lecture was so _____ that many people fell asleep.
- adj.* lacking interest or excitement; tedious or dull
43. The deep sea _____ was unlike anything the scientists had ever seen before.
- n.* a living being, especially an animal
44. She received her _____ in psychology from the university.
- n.* a unit of measurement for angles, temperature, or level of proficiency or achievement; a rank or level of academic or professional attainment
45. That story was so _____ and it was scary.
- adj.* having or showing a sensible and practical idea that is possible to achieve
46. He had undergone heart _____ years before.
- n.* medical treatment of injuries or diseases involving an incision with instruments and often removing or replacing some parts of the body; the branch of medical science that treats disease or injury by operative procedures
47. She works at a recording _____ in Los Angeles.
- n.* a room or building where creative or artistic work is produced; a television or radio production company
48. He had painted the wood to _____ stone.
- v.* to make a pretense of someone's behavior or looks; to reproduce something that exists in real life using computers, models, etc., usually for study or training purposes

ANSWERS: 41. controller, 42. boring, 43. creature, 44. degree, 45. realistic, 46. surgery, 47. studio, 48. simulate

49. She has a minor curved _____ due to desk work for many years.
n. the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
50. How can you _____ that the earth is a sphere?
v. to display something or give an exhibition to an interested audience
51. Most data centers have emergency _____ on standby at all times.
n. a machine that produces electricity
52. 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
53. She falls over _____ when she sees her mother-in-law.
adv. at, to, or toward the direction or place that is behind or rear
54. A broken gas pipe triggered the _____.
n. a violent release induced by a chemical or nuclear reaction
55. Having a _____ healthy physique is essential for a great life.
adv. in a way related to a person's body or appearance rather than their mind
56. Try to keep a _____ between work and off.
n. a condition in which everything has the same weight or force; something left after other parts have been taken away
57. Military technology eventually became the foundation for _____ technology that supported people's lives.
adj. of or relating to a subject of study, especially a science, that is used in a practical way

ANSWERS: 49. spine, 50. demonstrate, 51. generators, 52. generation, 53. backward, 54. explosion, 55. physically, 56. balance, 57. applied

58. 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
59. The systems we have developed has accepted as industry _____.
- n.* something that is regarded as usual, typical, or standard
60. They study the _____ of the universe.
- n.* a gradual process of transformation of living things
61. Einstein was an outstanding and famous _____ of the 20th century.
- n.* a scientist who specializes in the field of physics
62. The _____ of the Atlantic coast of America is very complicated.
- n.* the outline of its shape or form; a line drawn on a map connecting points of equal height
63. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
64. The invention of the camera changed the course of painting in pursuing _____.
- n.* the attitude or behavior of accepting circumstances as they are and being prepared to deal with them accordingly; (in arts) the general attempt to depict subjects truthfully in different forms of the arts
65. The heavyweights on one end of the scale _____ the lighter weights on the other end.
- v.* to offset or balance the effect of something by applying an equal or opposite force or effect; to provide a counteracting or balancing influence for something; (noun) a weight or force that is used to balance or offset another weight or force

ANSWERS: 58. AI, 59. norms, 60. evolution, 61. physicist, 62. contour, 63. engineer, 64. realism, 65. counterbalanced

66. The new video game has an _____ storyline that allows players to make choices that affect the game's outcome.

adj. acting reciprocally; mutually responsive

67. The _____ course was challenging but fun.

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

68. We do move forward with those tasks in _____ next week.

n. a series of related events, actions, numbers, etc., which have a particular order

69. The company specializes in both hardware and _____.

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

70. We will explain the countermeasure concerning this problem _____.

adv. after the time mentioned

71. He _____ a branch from a tree quickly.

v. to break or separate something by cutting, especially suddenly and forcibly

72. 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

73. One such rapidly growing _____ is quantum cryptography.

n. an idea or principle associated with something abstract

74. The sperm whale can _____ to 1,000 meters.

v. to jump into the water with your head and arms going in first, or to move down to a deeper level underwater

ANSWERS: 66. interactive, 67. obstacle, 68. sequence, 69. software, 70. afterward, 71. severed, 72. breakthroughs, 73. concept, 74. dive

75. During colonial eras, new migratory patterns _____.

v. to move out of or away from something and become visible

76. This year's _____ gathering will be held in Canada.

adj. important and large in size, scope, or extent

77. After the summit meeting, the prime ministers issued a _____ statement.

adj. shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton

78. How extraordinarily _____ a liar the camera is.

adj. difficult to hold firmly or stand on because it is wet or smooth; not to be trusted

79. The _____ concert was packed with fans.

adj. existing or remaining upright; having a vertical position; (noun) social, financial, or professional status or reputation

80. The thief moved with _____ careful not to make any noise and alert anyone to his presence.

n. the quality of remaining hidden or undetected; the ability to move or act with great secrecy and subtlety

81. The _____ of the movie had everyone on the edge of their seats.

n. the most intense or exciting moment of an event or experience; the point of highest dramatic tension or emotional intensity in a story, plot, or performance

82. _____ algorithms can find ways to optimize that humans do not anticipate.

adj. relating to or denoting how living things develop or change from earlier forms

ANSWERS: 75. emerged, 76. grand, 77. joint, 78. slippery, 79. standing, 80. stealth, 81. climax, 82. Evolutionary

83. The _____ to the new class was informative and engaging.
n. a preliminary explanation or remarks given before the start of a text, performance, or event; the act of bringing something new into existence or introducing something to a wider audience or new market
84. He suffers from _____ breakdowns.
adj. worried and anxious about something; relating to the nerves
85. She is a leading female classical _____ dancer
n. a type of performance dance that tells a dramatic story or expresses an idea with music but no talking or singing
86. How did he _____ to your idea?
v. to take action in response to something
87. The astronaut felt weightless in space due to the absence of _____.
n. the force that attracts a body towards the center of the earth or towards any other physical body having mass; a manner that is solemn
88. The _____ of the dancers on stage was graceful and elegant.
n. a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively
89. The findings of the experiment were both _____ and unexpected.
adj. causing a lot of interest or excitement
90. Poverty is not a reproach; however, _____ is.
n. the act of taking anything from someone or somewhere unlawfully; stealing

ANSWERS: 83. introduction, 84. nervous, 85. ballet, 86. react, 87. gravity, 88. movement, 89. exciting, 90. theft

91. The positive attitude of the supervisor _____ the discussion.
v. to make something full of interest and energy
92. Pakistan's ____ budget was still being reviewed.
n. things sent to help countries in need, notably food or money; support
93. The daredevil attempted a dangerous _____ by jumping off a tall building with a parachute.
n. a feat or action that is often dangerous or difficult, designed to attract attention or admiration; something that blocks or impedes growth or development; (verb) to hinder or impede growth or development, especially in a physical or mental sense
94. 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
95. Some people with Parkinson's disease may experience tremors and _____ in their limbs.
n. a condition characterized by the loss or impairment of movement or sensation due to damage or disease affecting the nervous system; paralysis or weakness
96. He included a _____ from the book in his essay.
n. a group of words taken from a text or speech and repeated by someone other than the original author or speaker
97. X-rays revealed a small tumor in his _____.
n. the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 91. animated, 92. aid, 93. stunt, 94. process, 95. palsy, 96. quotation, 97. brain

98. My dream is to become a great _____ designer like her.

n. images, designs, or drawings used in websites, books, magazines, etc.

99. 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

100. A _____ engineer is still in demand in many companies.

adj. operated by a machine, relating to or concerned with machinery or tools

101. The project's _____ made it difficult for the team to complete it on time.

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

102. _____ is the mother of all learning.

n. the act of doing or saying something many times

103. To find drunk drivers, police conduct _____ tests.

adj. made, done, or happening without method, conscious decision, or any regular pattern

104. The truth was more _____ than expected.

adj. very strange or unusual

105. They had formed a friendship _____.

n. a close emotional connection between two or more people; a certificate of debt that a government or corporation issues to raise money

ANSWERS: 98. graphics, 99. develop, 100. mechanical, 101. complexity, 102. Repetition, 103. random, 104. bizarre, 105. bond

106. The mistake was _____ and made in good faith.

adj. not done or made on purpose; accidental

107. We have discussed the entirety of this _____ problem.

adj. requiring care and skill because challenging to do or deal with

108. The patient experienced a _____ hemorrhage and required surgery.

adj. relating to the brain or intellect; intellectual or studious rather than emotional or physical

109. You must _____ the software with a 16-digit key before you can use it.

v. make something start working, more active or dynamic

110. As an _____ he had the right to make his own decisions and live his life as he saw fit.

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

111. 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

112. 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

113. The rabbit _____ over the fence.

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

ANSWERS: 106. unintentional, 107. tricky, 108. cerebral, 109. activate, 110. individual, 111. artificial, 112. decide, 113. hopped

114. By dividing and creating copies of themselves, bacteria _____.

- v.* to make a copy of something such as a picture, piece of text, music, etc.; to produce offspring through a sexual or asexual process

115. He didn't _____ the plan, even though he had time.

- v.* to pinch or squeeze something sharply; to adjust something finely

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

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

117. An excellent historian must possess an _____ mentality.

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

118. 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

119. This bar _____ shows sales over the past five years.

- n.* a picture consisting of a line, lines, points, etc., that shows how two or more sets of certain quantities are related to each other

120. A suspension order from the court is effective _____.

- adv.* now or without delay

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

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

122. He used an old _____ to clean the grease off the car's engine.

- n.* a piece of cloth, especially an old one, torn or cut into strips and used for cleaning

ANSWERS: 114. reproduce, 115. tweak, 116. operate, 117. academic, 118. unpredictable, 119. graph, 120. immediately, 121. outcome, 122. rag

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

adj. easy to see, discover or understand

124. The museum houses a _____ collection of Celtic artifacts.

adj. extremely interesting

125. They set up a _____ jump attraction at the amusement park to attract thrill-seekers.

n. a strong, elastic cord or rope used to leap or dive from a height, typically while attached to a harness or other safety equipment, providing a thrilling experience or a means of controlled descent

126. Most countries prohibit sexual activity between certain close _____.

adj. considered and evaluated through comparison with something else

127. She tried to _____ the layout of the new house in her mind.

v. to form a mental image or concept of something; to make something visible

128. We should always be prepared to _____ talented recruits.

v. to give somebody a job

129. The advanced math problem was _____ but the student was determined to solve it.

adj. difficult, demanding, or requiring a high degree of skill or effort; presenting a difficult problem or obstacle

130. The _____ of the bees filled the air as she walked through the garden.

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

ANSWERS: 123. obvious, 124. fascinating, 125. bungee, 126. relatives, 127. visualize, 128. hire, 129. challenging, 130. humming

131. The animal rights group worked to _____ the dolphins back into the wild.

v. to set free or allow to escape from confinement

132. He fastens some sheets of paper with a _____.

n. a small metal or plastic device used for holding an object or objects together or in place; a short part of electronic media, either an audio clip or video clip

133. _____ walking encouraged the further evolution of humankind.

n. an animal with two feet

134. The jury must _____ a decision on this complex case.

v. to bring someone or something into a particular state; to provide something such as service, help, etc.

135. She is the _____ president of the company.

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

136. The antique _____ was worth thousands of dollars.

n. a child's toy that typically represents a human figure, especially a young girl; an attractive woman; a woman who is subservient or passive

137. I'm not _____ in our victory.

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

138. Please hang your towel on a _____.

n. a curved device used for suspending, holding, or pulling something, especially one attached to a surface for hanging things on; a sharp curve or crook

ANSWERS: 131. release, 132. clip, 133. Biped, 134. render, 135. virtual, 136. doll, 137. confident, 138. hook

139. Autistic children may engage in _____ behaviors, such as rocking or hand flapping, to self-regulate.
- n.* a behavior often exhibited by individuals on the autism spectrum characterized by repetitive bodily movements or sounds, such as hand flapping or rocking, often used as a form of self-regulation or sensory stimulation
140. Five of the six provinces will become _____ regions under the new federal system of government.
- adj.* capable of governing or controlling its affairs
141. The official transcript contains _____ academic records.
- adj.* correct and exact in all details
142. Eyeless fish _____ in dark caves.
- v.* to develop gradually, or to cause the development of something or someone gradually
143. This ad campaign is aimed _____ at young women.
- adv.* only associated with or meant for one thing
144. It seems _____ that he has forgotten our scheduled meeting.
- adj.* likely to happen or likely to be true
145. Understanding protein folding is a vital step in deciphering the _____ code.
- adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
146. He was sick for five _____ days.
- adj.* extending or moving in one direction without bending or curving; having no deviations

ANSWERS: 139. stimming, 140. autonomous, 141. accurate, 142. evolved, 143. specifically, 144. probable, 145. genetic, 146. straight

147. He moved his body _____ to the left.

adv. in a small degree or extent; a little

148. You _____ a bill in the change machine, and the coins pop out.

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

149. The _____ of the characters in the movie was so realistic, and it was as if they were there.

n. the technique of photographing successive drawings or positions of puppets or models to create an illusion of movement when the film is shown as a sequence; enthusiasm and energy in the way you look or behave

ANSWERS: 147. slightly, 148. stick, 149. animation