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Riccardo Sabatini: How to read the genome and build a human being | TED Talk

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

All Words

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Session 1: Word List

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.

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.

physics

n. the science of matter and energy and their interactions

(1) nuclear **physics**, (2) laws of **physics**

He studied the **physics** of radiation.

shock

n. a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

synonym: amazement, surprise, stunner

(1) death from **shock**, (2) **shock-resistant**

He got an electric **shock** at work.

discovery

n. the act or process of finding information, a place, or an object, or learning about something that was previously not known

synonym : finding, uncovering, detection

(1) a scientific **discovery**, (2) the great **discovery** of the century

Her research team made an important **discovery**.

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**.

mesmerize

v. to captivate or fascinate; to hold the complete attention of

synonym : captivate, trance, enchant

(1) **mesmerize** a subject, (2) **mesmerize** with magic

The magician's performance **mesmerized** the audience.

assemble

v. to collect in one place as a single group

synonym : gather, congregate, collect

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

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

thumb

n. the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists

synonym : digit, finger, phalange

(1) **thumb** wrestling, (2) **thumb** a ride

He used his right **thumb** to press the button on his phone.

approximate

adj. nearly accurate or correct, but not completely so

synonym : rough, close, near

(1) linear **approximate** equation, (2) **approximate** time

The **approximate** cost of the project was estimated to be

around \$500,000.

gigantic

adj. extremely large

synonym : huge, enormous, immense

(1) **gigantic** proportions, (2) **gigantic** monsters

He was so hungry from the long journey that he had a **gigantic** appetite.

atom

n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus

synonym : particle, element, fraction

(1) oxygen **atom**, (2) neutral hydrogen **atoms**

The outermost electron shell of an **atom** determines its chemical characteristics.

hydrogen

n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

(1) **hydrogen** gas, (2) heavy **hydrogen**

The **hydrogen** and the oxygen react and then form water.

carbon

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

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

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

nitrogen

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

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

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

compose

v. to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it

synonym: compile, constitute, build

(1) **compose** an essay, (2) **compose** my thoughts

The structure is **composed** of three main components.

astonishing

adj. surprising or shocking; difficult to believe

synonym: surprising, shocking, astounding

(1) **astonishing** achievement, (2) make **astonishing** gains

The news of her sudden death was **astonishing** to everyone who knew her.

titanic

adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

synonym: colossal, massive, immense

(1) **titanic** battle, (2) **titanic** compound

The **titanic** ship sank on its maiden voyage.

multiply

v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity

synonym: boost, amplify, reproduce

(1) **multiply** 5 and 6, (2) **multiply** about hundredfold

Multiply a number by itself twice.

miracle

n. an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God

synonym: wonder, marvel, phenomenon

(1) **miracle** person, (2) economic **miracle**

The doctors said that her recovery was a **miracle**.

pregnant

adj. having a baby or young animal developing in the uterus

synonym: expectant

(1) needs of **pregnant** women, (2) a silence **pregnant** with suspense

She vacated the position when she got **pregnant**.

encounter

v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly

synonym: meet, run into, come across

(1) **encounter** a crisis, (2) **encounter** a storm

I'm prepared to **encounter** challenges throughout this adventure.

fortunate

adj. having good luck or lucky

synonym: fortuitous, lucky, blessed

(1) **fortunate** situation, (2) less **fortunate** person

He was pretty **fortunate** to pass the exam.

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.

crystal

n. a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica

synonym: quartz

(1) liquid **crystal**, (2) **crystal** analyses

A vast **crystal** chandelier glittered brightly above us.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling

The golfer recorded an **amazing** distance.

poke

v. to push or prod with a sharp object or the finger

synonym: prod, jab, push

(1) **poke** around the desk, (2) **poke** a fire

They **poked** fun at each other's jokes, laughing and teasing.

unroll

v. to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden

synonym: unwind, unfurl, wind off

(1) **unroll** the gift wrap, (2) **unroll** paper

I **unroll** the mat before starting my yoga practice.

alphabet

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

synonym: ABC's

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

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

enormous

adj. extremely large or great

synonym: huge, giant, gigantic

(1) **enormous** amount, (2) **enormous** potential

Shakespeare's output of poetry was **enormous**.

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.

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.

vent

n. a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

synonym : duct, outlet, venthole

(1) volcanic **vent**, (2) **vent** tube

He gave **vent** to his anger by playing the guitar.

onstage

adv. onto or on a stage in a theater; in front of an audience

(1) appeared **onstage**, (2) walk **onstage**

He performed his magic trick **onstage**, leaving the audience in awe.

flesh

n. the soft substance composing the body of a person or animal, as opposed to bones and other structures

synonym : meat, muscle, tissue

(1) grow in **flesh**, (2) **flesh** eating

The **flesh** of the fruit is sweet and juicy.

genome

n. the complete set or sequence of genes of a human, animal, plant, or other living things

(1) sequencing of the human **genome**, (2) **genome** analyses

The human **genome** contains approximately three billion chemical base pairs.

specific

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

synonym : particular, definite, distinct

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

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

letter-by-letter

adv. referring to a method of communication or transmission in which individual letters or characters are spelled out or conveyed one at a time, often used for slow, deliberate, or painstaking communication

synonym : alphabetic, literal

(1) spell **letter-by-letter**, (2) say **letter-by-letter**

The children were learning to read **letter-by-letter** as part of their literacy lessons.

statistics

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

(1) **statistics** for cancer, (2) official **statistics**

The **statistics** demonstrate that poverty and unemployment are genuine problems.

start-up

n. a newly established company or business

(1) **start-up** business, (2) early-stage **start-up**

Our company's services are targeted at **start-up** executives.

feat

n. a notable or impressive achievement, especially one that requires great skill or bravery

synonym: achievement, accomplishment, exploit

(1) intellectual **feat**, (2) **feat** accomplishment

It is an incredible **feat** to climb Mount Everest, the highest mountain in the world.

visual

adj. relating to seeing or sight

synonym: optical, graphical, visible

(1) **visual** navigation, (2) field of **visual** arts

The building makes a remarkable **visual** impact.

perception

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

synonym: understanding, idea, awareness

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

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

annotate

v. to make notes or comments on a text or document

synonym: comment on, note, mark

(1) **annotate** a book, (2) **annotate** text

I need to **annotate** this document before I submit it.

apparently

adv. based on what you have heard or read

synonym : evidently, obviously, supposedly

(1) **apparently** simple, (2) **apparently** unrelated

The police **apparently** believed this explanation was plausible.

mute

adj. silent; not speaking or unable to speak; not expressed or articulated

synonym : silent, unspoken, voiceless

(1) **mute** button, (2) **mute** sound

The actor played a **mute** character and had to rely on facial expressions to portray his emotions.

complicated

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

synonym : complex, convoluted, intricate

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

complicated

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

chromosome

n. a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like

synonym : DNA

(1) a sex **chromosome**, (2) the end of **chromosome**

Human females normally have two X **chromosomes**.

condemn

v. to express strong disapproval or criticism of something

synonym : criticize, denounce, censure

(1) **condemn** violence, (2) **condemn** crime

The government was **condemned** for its handling of the crisis.

disease

n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

synonym : illness, ailment, affliction

(1) **disease** prevention, (2) **disease** control

The doctor diagnosed him with a rare **disease** that had no known cure.

cyst

n. a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

synonym : abscess, sac, lump

(1) **cyst** removal, (2) ovarian **cyst**

The patient was sent for an X-ray to determine the cause of the **cyst** in her abdomen.

fibrosis

n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure

synonym : scarring, hardening, fibrotic disease

(1) **fibrosis** diagnosis, (2) pulmonary **fibrosis**

The doctor diagnosed him with cardiac **fibrosis**, which put him at risk for heart failure.

mighty

adj. very large, powerful, or strong

synonym : potent, powerful, robust

(1) **mighty** works, (2) struck a **mighty** blow

Only the **mighty** God has the power to brighten this dark land.

remarkable

adj. worthy of attention because unusual or special

synonym : outstanding, exceptional, extraordinary

(1) **remarkable** achievement, (2) the **remarkable** breadth of knowledge

The election was a **remarkable** success for the Whigs.

absolutely

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

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

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

identical

adj. being the exact same one
synonym: duplicate, exact, analogous

(1) pair of **identical** twins, (2) an **identical** equation

Infant formulas are nutritionally almost **identical** to a mother's breast milk.

instruction

n. detailed direction, order, etc., on how to do or use something
synonym: education, direction, guidance

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

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

crack

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
synonym: snap, burst, break

(1) **crack** an eggshell, (2) a **crack** in a board

He that would eat the kernel must **crack** the nut.

peter

v. to fail or lose power, efficiency, or value gradually before coming to an end
synonym: decrease, drop, lower

(1) eventually **peter** out, (2) begin to **peter** out

The music just **petered** out.

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.

longevity

n. the property of being long-lived; significant duration of service

synonym: seniority, endurance

(1) **longevity** crisis, (2) **longevity** genes

He is proud of the **longevity** of the business.

medicinal

adj. of or relating to the treatment or cure of disease

synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

database

n. a large amount of data stored in a computer system in such a way that it can be searched and updated easily

(1) **database** administrator, (2) employee **database**

Each country's officials can access the central **database**.

phenotype

n. the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives

synonym: trait, characteristic, attribute

(1) **phenotype** variation, (2) dominant **phenotype**

Our genetic **phenotype** determines the color of our eyes.

scan

v. to examine something hastily, with the eyes or with a machine, to get information

synonym: look over, scrutinize, browse

(1) **scan** the face of the man, (2) **scan** a document into PDF

She stood on the podium and **scanned** an audience.

opposition

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

synonym: resistance, hostility, antagonism

(1) **opposition** campaign, (2) meet with **opposition**
The **opposition** party strongly disagreed with the government's proposed legislation.

translate

v. to convert or change words into another language
synonym: convert, transcribe, render

(1) **translate** a document into English, (2) **translate** the emotion to a movement

Translate the text from Italian into English.

trait

n. a particular feature of your nature
synonym: attribute, feature, quality

(1) chemical **trait**, (2) personality **traits**

Multiple genes may influence behavioral **traits** concurrently.

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.

centimeter

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

(1) **centimeter** measurement, (2) thirty **centimeters** tall
The room was only one **centimeter** wider than the piano, making it a tight fit.

precision

n. the quality or condition of being exact and accurate
synonym: accuracy, exactness, rigor

(1) a **precision** instrument, (2) speak with **precision**
This operation requires both patience and **precision**.

ballpark

v. a place or facility where baseball is played; a rough estimation of something
synonym: arena, proximity, vicinity

(1) **ballpark** price, (2) major-league **ballpark**

It'll be somewhere in the **ballpark** of \$100.

accuracy

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

synonym : precision, exactness, truthfulness

(1) degree of **accuracy**, (2) the **accuracy** of his compass
To assure **accuracy**, I recommend investing in high-quality test kits.

insert

v. to put something inside something else

synonym : introduce, add, embed

(1) **insert** coin, (2) **insert** a graphic

She **inserted** a new chapter into her manuscript.

scatter

v. to cause to separate and go in different directions

synonym : disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet

The hunter's approach **scattered** the geese.

well-defined

adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

synonym : clear, distinct, precise

(1) **well-defined** terms, (2) **well-defined** objectives

The **well-defined** set of instructions made it easy to assemble the furniture.

tier

n. one of a series of rows or levels arranged one above the other, typically used to describe the arrangement of objects or levels of importance

synonym : level, layer, class

(1) a two- **tier** system, (2) **tier** one company

The company operates on a three- **tier** pricing structure.

embed

v. to fix or set firmly in a surrounding mass

synonym : entrench, fix, set

(1) **embed** scripts in the message, (2) **embed** a sensor
The company **embedded** a tracking code in the product's packaging to monitor its shipment.

compress

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

synonym: condense, constrict, squeeze

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

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

emotional

adj. relating to people's feelings

synonym: affecting, impactful, impressive

(1) **emotional** health, (2) **emotional** distress

Human **emotional** responses vary widely depending on the society to which they belong.

lab

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

synonym: workshop, laboratory, research chamber

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

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

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.

defect

n. an imperfection, shortcoming, or lack of something or someone

synonym: fault, blemish, flaw

(1) visual **defects**, (2) **defects** of character

Defects in the design could cause much worse issues.

asymmetrical

adj. lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position

synonym : uneven, lopsided, crooked

(1) **asymmetrical** design, (2) **asymmetrical** haircut

The **asymmetrical** shape of the vase made it unique and exciting.

symmetry

n. balance or proportion in design or structure, with elements arranged evenly on either side of an axis

synonym : balance, proportion, harmoniousness

(1) bilateral **symmetry**, (2) axial **symmetry**

The building had a **symmetry** pattern that was pleasing to the eye.

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.

prediction

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

synonym : forecast, anticipation, foretelling

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

These results muddied the **prediction**.

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**.

gender

n. the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than

differences in biology

synonym : sexuality

(1) **gender-blind** policies, (2) dual **gender**

Cultural norms strongly influence **gender** expectations.

ethnicity

n. the cultural characteristics of a particular group, such as language, religion, and traditions, that distinguish them from other groups

synonym : race, culture, heritage

(1) with respect to **ethnicity**, (2) based on their **ethnicity**

The company has a diverse workforce representing different **ethnicity** and backgrounds.

component

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

synonym : element, part, factor

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

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

emotion

n. a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others

synonym : feeling, sentiment, passion

(1) control my **emotion**, (2) afraid to show **emotion**

Some **emotions** are common across cultures and backgrounds.

structure

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

synonym : construction, architecture, establishment

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

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

exposed

adj. having no protection or shield from something, such as bad weather, attack, or criticism

synonym : endangered, revealed, disclosed

(1) **exposed** to radiation, (2) an **exposed** rock

Tech companies often employ **exposed** ducts and other materials in their office interiors.

recognize

v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered

synonym : acknowledge, identify, admit

(1) **recognize** talent, (2) **recognize** achievement

It's important to **recognize** your strengths and weaknesses.

vial

n. a small glass container, especially one containing liquid medicine or perfume

synonym : container, bottle, flask

(1) glass **vials**, (2) insulin **vial**

This medication is sealed in a **vial**.

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.

rev

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

synonym : revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd

He stepped on the gas pedal, and the engine released a loud **rev**.

intentionally

adv. in a planned or intended way

synonym : knowingly, calculatedly, deliberately

(1) she hit him **intentionally**, (2) She **intentionally** spread misleading information.

She would never **intentionally** hurt anyone.

peculiar

adj. odd and uncommon, sometimes in an unpleasant way

synonym: bizarre, abnormal, odd

(1) **peculiar** way, (2) **peculiar** people

The juice has a **peculiar** taste.

beard

n. hair that grows on a man's face, often around the mouth and chin

synonym: facial hair, whiskers, stubble

(1) a black **beard**, (2) shave my **beard**

He grew a thick **beard** to change his appearance.

transfer

v. to move, pass, or change from one person, place, or situation to another

synonym: move, relocate, shift

(1) **transfer** a file, (2) **transfer** power

She **transferred** the money from her savings account to her checking account.

photoshop

v. to edit or manipulate digital images or photographs using Adobe Photoshop software or similar tools

synonym: edit, retouch, manipulate

(1) **photoshop** a picture, (2) **photoshop** the background of the image

The photographer **photoshopped** the image to enhance the lighting and contrast.

cancer

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

synonym: tumor, carcinoma, malignancy

(1) **cancer** diagnosis, (2) **cancer** research

Breast **cancer** is the most common type of cancer in women.

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.

dot

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

synonym: drop, dab, fleck

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

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

topic

n. a subject that is being discussed or written about

synonym: subject, theme, issue

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

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

precise

adj. sharply exact or accurate or delimited

synonym: accurate, exact, distinct

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

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

confront

v. to face, meet or deal with a problem or difficult situation or person

synonym: engage, encounter, contend

(1) **confront** a global warming, (2) **confront** the issue

He finally decided to **confront** problems directly.

decision

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

synonym: choice, determination, judgment

(1) **decision** authority, (2) a selfish **decision**

She was struggling to make a **decision** between two job offers.

revolution

n. a large-scale attempt to overthrow the government of a country, often using violence or war;

synonym: coup, innovation, rebellion

(1) beginning of the industrial **revolution**, (2) a political **revolution**

The **revolution** by the citizen resulted in a redistribution of wealth.

confine

v. to restrict the movement of someone or something

synonym: restrict, limit, contain

(1) **confine** themselves solely, (2) **confine** the scope of use

The animal was **confined** in a small cage.

domain

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

synonym: territory, realm, sphere

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

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

conversation

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

synonym: chat, discussion, dialogue

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

Your **conversation** reflects your thoughts.

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.

creative

adj. relating to or involving the use of skill and original and unusual ideas to create something

synonym : imaginative, innovative, inventive

(1) **creative** writing, (2) barren of **creative** spirit

All the supervisor has to do is assign tasks that make his subordinates more **creative**.

philosophy

n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

synonym : doctrine, attitude, creed

(1) **philosophy** of education, (2) western **philosophy**

Ethics is a branch of **philosophy**.

politician

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

synonym : congressperson, lawmaker, legislator

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

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

involve

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

synonym : implicate, include, engage

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

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

Session 2: Spelling

- | | |
|------------------------|---|
| 1. di____e prevention | <i>n.</i> a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems |
| 2. ovarian c__t | <i>n.</i> a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment |
| 3. employee da____se | <i>n.</i> a large amount of data stored in a computer system in such a way that it can be searched and updated easily |
| 4. a two-t__r system | <i>n.</i> one of a series of rows or levels arranged one above the other, typically used to describe the arrangement of objects or levels of importance |
| 5. shave my be__d | <i>n.</i> hair that grows on a man's face, often around the mouth and chin |
| 6. speak with pr____on | <i>n.</i> the quality or condition of being exact and accurate |
| 7. co____n violence | <i>v.</i> to express strong disapproval or criticism of something |
| 8. me____ze with magic | <i>v.</i> to captivate or fascinate; to hold the complete attention of |
| 9. pe____ar way | <i>adj.</i> odd and uncommon, sometimes in an unpleasant way |

ANSWERS: 1. disease, 2. cyst, 3. database, 4. tier, 5. beard, 6. precision, 7. condemn, 8. mesmerize, 9. peculiar

10. theoretical ph_____st *n.* a scientist who specializes in the field of physics
11. ti_____c battle *adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
12. lo_____ty crisis *n.* the property of being long-lived; significant duration of service
13. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
14. pulmonary fi_____is *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
15. ni_____en absorption *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
16. traditional me_____al *adj.* of or relating to the treatment or cure of disease
17. begin to pe__r out *v.* to fail or lose power, efficiency, or value gradually before coming to an end
18. fo_____te situation *adj.* having good luck or lucky
19. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation

ANSWERS: 10. physicist, 11. titanic, 12. longevity, 13. complexity, 14. fibrosis, 15. nitrogen, 16. medicinal, 17. peter, 18. fortunate, 19. algorithm

20. em_____al distress *adj.* relating to people's feelings
21. beginning of the industrial
rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
22. sp_____ic instructions *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
23. barren of cr_____ve spirit *adj.* relating to or involving the use of skill and original and unusual ideas to create something
24. volcanic v__t *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
25. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
26. sh__k-resistant *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
27. ti_____c compound *adj.* of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)
28. walk on_____e *adv.* onto or on a stage in a theater; in front of an audience
29. pe_____ar people *adj.* odd and uncommon, sometimes in an unpleasant way

ANSWERS: 20. emotional, 21. revolution, 22. specific, 23. creative, 24. vent, 25. decide, 26. shock, 27. titanic, 28. onstage, 29. peculiar

30. oxygen a__m *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
31. bilateral sy____ry *n.* balance or proportion in design or structure, with elements arranged evenly on either side of an axis
32. dual ge___r *n.* the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than differences in biology
33. cr__k an eggshell *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
34. asy____cal haircut *adj.* lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position
35. mu____ly 5 and 6 *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
36. the ac____cy of his compass *n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
37. con____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.

ANSWERS: 30. atom, 31. symmetry, 32. gender, 33. crack, 34. asymmetrical, 35. multiply, 36. accuracy, 37. conversation

38. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
39. pr_____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
40. re_____ze talent *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
41. sc_____r around the internet *v.* to cause to separate and go in different directions
42. field of vi___l arts *adj.* relating to seeing or sight
43. become increasingly com_____ed *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
44. abs_____ly obsessed with the girl *adv.* without restriction or limitation; completely or utterly
45. early-stage st_____up *n.* a newly established company or business
46. gi_____ic monsters *adj.* extremely large
47. tr_____te a document into English *v.* to convert or change words into another language
48. heavy hy_____en *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
49. fi_____is diagnosis *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure

ANSWERS: 38. revolution, 39. predict, 40. recognize, 41. scatter, 42. visual, 43.

complicated, 44. absolutely, 45. start-up, 46. gigantic, 47. translate, 48. hydrogen, 49. fibrosis

50. a com_____ed process *adj.* involving a lot of different things or parts in a way that is difficult to understand or analyze
51. me_____ze a subject *v.* to captivate or fascinate; to hold the complete attention of
52. re_____ze achievement *v.* to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
53. v__t tube *n.* a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion
54. ca____n emission *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals
55. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
56. in_____e a lot of paperwork *v.* to include or affect someone or something as a necessary part of something else
57. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
58. en_____us amount *adj.* extremely large or great
59. p__e a fire *v.* to push or prod with a sharp object or the finger
60. phi_____hy of education *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

ANSWERS: 50. complicated, 51. mesmerize, 52. recognize, 53. vent, 54. carbon, 55. amazing, 56. involve, 57. medicinal, 58. enormous, 59. poke, 60. philosophy

61. follow his ins_____ons *n.* detailed direction, order, etc., on how to do or use something
62. tr_____te the emotion to a movement *v.* to convert or change words into another language
63. 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
64. economic mi_____e *n.* an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God
65. She int_____lly spread misleading information. *adv.* in a planned or intended way
66. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
67. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
68. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
69. tr_____er a file *v.* to move, pass, or change from one person, place, or situation to another
70. 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: 61. instruction, 62. translate, 63. develop, 64. miracle, 65. intentionally, 66. lab, 67. discovery, 68. centimeter, 69. transfer, 70. decide

71. imm_____ly recall a product *adv.* now or without delay
72. gi_____ic proportions *adj.* extremely large
73. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
74. c__t removal *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
75. in_____ct with one another *v.* to communicate or react with somebody
76. ph_____op a picture *v.* to edit or manipulate digital images or photographs using Adobe Photoshop software or similar tools
77. co_____t car *n.* an idea or principle associated with something abstract
78. meet with opp_____on *n.* the act of disagreeing or resisting; the state of strong disagreement
79. vi___l navigation *adj.* relating to seeing or sight
80. laws of ph_____s *n.* the science of matter and energy and their interactions
81. co_____e my thoughts *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
82. keen per_____on *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses

ANSWERS: 71. immediately, 72. gigantic, 73. complexity, 74. cyst, 75. interact, 76. photoshop, 77. concept, 78. opposition, 79. visual, 80. physics, 81. compose, 82. perception

83. cr____l analyses *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
84. a selfish de____on *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
85. letters of an al____et *n.* a character set that includes letters and is used to write a language
86. de____on authority *n.* the act or process of making up someone's mind about something; a choice or judgment reached after considering options
87. abs____ly against *adv.* without restriction or limitation; completely or utterly
88. ex____d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
89. 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
90. hy____en gas *n.* the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water

ANSWERS: 83. crystal, 84. decision, 85. alphabet, 86. decision, 87. absolutely, 88. exposed, 89. introduction, 90. hydrogen

91. dominant ph_____pe *n.* the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives
92. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
93. the rem_____le breadth of knowledge *adj.* worthy of attention because unusual or special
94. grow in fl__h *n.* the soft substance composing the body of a person or animal, as opposed to bones and other structures
95. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
96. am_____g advances *adj.* extremely surprising, especially in a way that you like or admire
97. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
98. death from sh__k *n.* a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant
99. ca____n dioxide *n.* a chemical element that can be found in pure form as diamond or graphite, and it is also an essential part of coal and oil and is found in all plants and animals

ANSWERS: 91. phenotype, 92. discovery, 93. remarkable, 94. flesh, 95. scan, 96. amazing, 97. centimeter, 98. shock, 99. carbon

100. control my em_____n *n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
101. ast_____ng achievement *adj.* surprising or shocking; difficult to believe
102. asy_____cal design *adj.* lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position
103. mi_____e person *n.* an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God
104. a corrupt pol_____an *n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.
105. opp_____on campaign *n.* the act of disagreeing or resisting; the state of strong disagreement
106. 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
107. st_____up business *n.* a newly established company or business
108. em_____al health *adj.* relating to people's feelings
109. ph_____op the background of the image *v.* to edit or manipulate digital images or photographs using Adobe Photoshop software or similar tools

ANSWERS: 100. emotion, 101. astonishing, 102. asymmetrical, 103. miracle, 104. politician, 105. opposition, 106. introduction, 107. start-up, 108. emotional, 109. photoshop

110. r_v up the crowd *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
111. afraid to show em____n *n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others
112. co____e the scope of use *v.* to restrict the movement of someone or something
113. sequencing of the human ge____e *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
114. ge____e analyses *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
115. insulin v__l *n.* a small glass container, especially one containing liquid medicine or perfume
116. en____us potential *adj.* extremely large or great
117. the se____ce of the seasons *n.* a series of related events, actions, numbers, etc., which have a particular order
118. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
119. en____er a storm *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
120. co____nt the issue *v.* to face, meet or deal with a problem or difficult situation or person

ANSWERS: 110. rev, 111. emotion, 112. confine, 113. genome, 114. genome, 115. vial, 116. enormous, 117. sequence, 118. lab, 119. encounter, 120. confront

121. fl__h eating	<i>n.</i>	the soft substance composing the body of a person or animal, as opposed to bones and other structures
122. em__d scripts in the message	<i>v.</i>	to fix or set firmly in a surrounding mass
123. official sta_____cs	<i>n.</i>	the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
124. talented ph_____st	<i>n.</i>	a scientist who specializes in the field of physics
125. th__b wrestling	<i>n.</i>	the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists
126. key co_____nt	<i>n.</i>	one of several parts that combines with others to form something bigger
127. major-league ba_____rk	<i>v.</i>	a place or facility where baseball is played; a rough estimation of something
128. cell and molecular bi_____y	<i>n.</i>	the scientific study of life and the natural processes of living things
129. do___n of use	<i>n.</i>	a specific sphere of influence or control; a specific field of knowledge or expertise
130. needs of pr_____nt women	<i>adj.</i>	having a baby or young animal developing in the uterus
131. glass v__ls	<i>n.</i>	a small glass container, especially one containing liquid medicine or perfume
132. st_____re and function of the brain	<i>n.</i>	the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts

ANSWERS: 121. flesh, 122. embed, 123. statistics, 124. physicist, 125. thumb, 126. component, 127. ballpark, 128. biology, 129. domain, 130. pregnant, 131. vial, 132. structure

133. co_____ss the chest *v.* to press or squeeze together to make something take up less space
134. tr_____er power *v.* to move, pass, or change from one person, place, or situation to another
135. with respect to et_____ty *n.* the cultural characteristics of a particular group, such as language, religion, and traditions, that distinguish them from other groups
136. d_t blot method *n.* a very small circular mark, especially one that is printed
137. un_____l paper *v.* to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden
138. em__d a sensor *v.* to fix or set firmly in a surrounding mass
139. app_____ly unrelated *adv.* based on what you have heard or read
140. t__r one company *n.* one of a series of rows or levels arranged one above the other, typically used to describe the arrangement of objects or levels of importance
141. th__b a ride *n.* the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists
142. spare co_____nts for cars *n.* one of several parts that combines with others to form something bigger
143. struck a mi____y blow *adj.* very large, powerful, or strong
144. nuclear ph_____s *n.* the science of matter and energy and their interactions

ANSWERS: 133. compress, 134. transfer, 135. ethnicity, 136. dot, 137. unroll, 138. embed, 139. apparently, 140. tier, 141. thumb, 142. component, 143. mighty, 144. physics

145. write him an answer imm_____ly *adv.* now or without delay
146. personality tr__ts *n.* a particular feature of your nature
147. rem_____le achievement *adj.* worthy of attention because unusual or special
148. liquid cr_____l *n.* a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
149. m__e sound *adj.* silent; not speaking or unable to speak; not expressed or articulated
150. an_____te a book *v.* to make notes or comments on a text or document
151. un___l the gift wrap *v.* to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden
152. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
153. western phi_____hy *n.* the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind
154. di_____e control *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems

ANSWERS: 145. immediately, 146. trait, 147. remarkable, 148. crystal, 149. mute, 150. annotate, 151. unroll, 152. brain, 153. philosophy, 154. disease

155. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
156. a serious to__c *n.* a subject that is being discussed or written about
157. ge___r-blind policies *n.* the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than differences in biology
158. cr_____ve writing *adj.* relating to or involving the use of skill and original and unusual ideas to create something
159. a cr__k in a board *v.* to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking
160. en_____er a crisis *v.* to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
161. the to__c of the book *n.* a subject that is being discussed or written about
162. low-r_v engine *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
163. in___t coin *v.* to put something inside something else

ANSWERS: 155. involve, 156. topic, 157. gender, 158. creative, 159. crack, 160. encounter, 161. topic, 162. rev, 163. insert

164. axial sy____ry *n.* balance or proportion in design or structure, with elements arranged evenly on either side of an axis
165. co____e themselves solely *v.* to restrict the movement of someone or something
166. make ast____ng gains *adj.* surprising or shocking; difficult to believe
167. neutral hydrogen a__ms *n.* the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
168. co____ss gas *v.* to press or squeeze together to make something take up less space
169. in____ct directly with customers *v.* to communicate or react with somebody
170. wel____ned objectives *adj.* having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable
171. completely fas____ng to me *adj.* extremely interesting
172. as____le your colleagues *v.* to collect in one place as a single group
173. pair of id____al twins *adj.* being the exact same one
174. visual de____ts *n.* an imperfection, shortcoming, or lack of something or someone
175. m__e button *adj.* silent; not speaking or unable to speak; not expressed or articulated
176. app____te time *adj.* nearly accurate or correct, but not completely so

ANSWERS: 164. symmetry, 165. confine, 166. astonishing, 167. atom, 168. compress, 169. interact, 170. well-defined, 171. fascinating, 172. assemble, 173. identical, 174. defect, 175. mute, 176. approximate

177. sc_____r seeds *v.* to cause to separate and go in different directions
178. a silence pr_____nt with suspense *adj.* having a baby or young animal developing in the uterus
179. heavy ni_____en *n.* a chemical element with the symbol N and atomic number 7, which is a highly reactive element that forms part of many compounds, including amino acids and proteins
180. app_____ly simple *adv.* based on what you have heard or read
181. pr_____e analyses *adj.* sharply exact or accurate or delimited
182. less fo_____te person *adj.* having good luck or lucky
183. based on their et_____ty *n.* the cultural characteristics of a particular group, such as language, religion, and traditions, that distinguish them from other groups
184. individual ins_____on *n.* detailed direction, order, etc., on how to do or use something
185. co_____n crime *v.* to express strong disapproval or criticism of something
186. an al_____et of manual signs *n.* a character set that includes letters and is used to write a language
187. learn new co_____ts *n.* an idea or principle associated with something abstract
188. a pol_____an in the ruling party *n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.

ANSWERS: 177. scatter, 178. pregnant, 179. nitrogen, 180. apparently, 181. precise, 182. fortunate, 183. ethnicity, 184. instruction, 185. condemn, 186. alphabet, 187. concept, 188. politician

189. an id_____al equation *adj.* being the exact same one
190. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
191. as_____le a jigsaw puzzle *v.* to collect in one place as a single group
192. an ex_____d rock *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
193. p__e around the desk *v.* to push or prod with a sharp object or the finger
194. a sex chr_____me *n.* a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
195. ba_____rk price *v.* a place or facility where baseball is played; a rough estimation of something
196. linear app_____te equation *adj.* nearly accurate or correct, but not completely so
197. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
198. lo_____ty genes *n.* the property of being long-lived; significant duration of service
199. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
200. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 189. identical, 190. scan, 191. assemble, 192. exposed, 193. poke, 194. chromosome, 195. ballpark, 196. approximate, 197. biology, 198. longevity, 199. brain, 200. develop

201. al_____hm for image processing *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
202. degree of ac_____cy *n.* the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
203. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
204. pr_____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
205. appeared on_____e *adv.* onto or on a stage in a theater; in front of an audience
206. co_____nt a global warming *v.* to face, meet or deal with a problem or difficult situation or person
207. per_____on of a stimulus *n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
208. ca____r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
209. de____ts of character *n.* an imperfection, shortcoming, or lack of something or someone
210. f__t accomplishment *n.* a notable or impressive achievement, especially one that requires great skill or bravery

ANSWERS: 201. algorithm, 202. accuracy, 203. conversation, 204. predict, 205. onstage, 206. confront, 207. perception, 208. cancer, 209. defect, 210. feat

211. ph_____pe variation *n.* the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives
212. a black be__d *n.* hair that grows on a man's face, often around the mouth and chin
213. spell let_____ter *adv.* referring to a method of communication or transmission in which individual letters or characters are spelled out or conveyed one at a time, often used for slow, deliberate, or painstaking communication
214. fas_____ng story *adj.* extremely interesting
215. da_____se administrator *n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily
216. in___t a graphic *v.* to put something inside something else
217. say let_____ter *adv.* referring to a method of communication or transmission in which individual letters or characters are spelled out or conveyed one at a time, often used for slow, deliberate, or painstaking communication
218. mi___y works *adj.* very large, powerful, or strong
219. eventually pe__r out *v.* to fail or lose power, efficiency, or value gradually before coming to an end
220. a dependent do___n *n.* a specific sphere of influence or control; a specific field of knowledge or expertise

ANSWERS: 211. phenotype, 212. beard, 213. letter-by-letter, 214. fascinating, 215. database, 216. insert, 217. letter-by-letter, 218. mighty, 219. peter, 220. domain

221. the st_____re of a machine *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
222. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
223. connecting the d_ts *n.* a very small circular mark, especially one that is printed
224. the end of chr_____me *n.* a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
225. mu_____ly about hundredfold *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
226. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
227. industry-sp_____ic regulations *adj.* clearly defined or particular to a certain thing or situation; distinct, explicit, and precise
228. a pr_____on instrument *n.* the quality or condition of being exact and accurate
229. wel_____ned terms *adj.* having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

ANSWERS: 221. structure, 222. prediction, 223. dot, 224. chromosome, 225. multiply, 226. feat, 227. specific, 228. precision, 229. well-defined

230. an____te text *v.* to make notes or comments on a text or document
231. the DNA se____ce *n.* a series of related events, actions, numbers, etc., which have a particular order
232. ca____r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
233. estimate pr____e costs *adj.* sharply exact or accurate or delimited
234. chemical tr__t *n.* a particular feature of your nature
235. co____e an essay *v.* to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
236. she hit him int_____lly *adv.* in a planned or intended way
237. make my pre____ons *n.* the act of predicting the future by reasoning; a statement made about the future
238. sta____cs for cancer *n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data

ANSWERS: 230. annotate, 231. sequence, 232. cancer, 233. precise, 234. trait, 235. compose, 236. intentionally, 237. prediction, 238. statistics

Session 3: Fill in the Blanks

1. Our genetic _____ determines the color of our eyes.
 - n.* the observable physical or biochemical characteristics of an individual organism that result from the interaction between its genetic makeup and the environment in which it lives

2. The _____ lost his position in the end due to the scandal.
 - n.* a person who is a member of a government or law-making organization, especially as an elected member of parliament, etc.

3. The golfer recorded an _____ distance.
 - adj.* extremely surprising, especially in a way that you like or admire

4. She stood on the podium and _____ an audience.
 - v.* to examine something hastily, with the eyes or with a machine, to get information

5. The _____ party strongly disagreed with the government's proposed legislation.
 - n.* the act of disagreeing or resisting; the state of strong disagreement

6. The music just _____ out.
 - v.* to fail or lose power, efficiency, or value gradually before coming to an end

7. 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

ANSWERS: 1. phenotype, 2. politician, 3. amazing, 4. scanned, 5. opposition, 6. petered, 7. algorithm

8. He used his right _____ to press the button on his phone.
n. the short, thick digit of the hand next to the index finger; (verb) to travel by getting free rides from motorists
9. The museum houses a _____ collection of Celtic artifacts.
adj. extremely interesting
10. Human females normally have two X _____.
n. a long and string-like DNA molecule containing the part or all of the genetic material of an organism that controls what an animal or plant is like
11. The police _____ believed this explanation was plausible.
adv. based on what you have heard or read
12. The president began to _____ an army.
v. to collect in one place as a single group
13. He was so hungry from the long journey that he had a _____ appetite.
adj. extremely large
14. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
15. Her research team made an important _____.
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
16. Cultural norms strongly influence _____ expectations.
n. the range of characteristics of femininity and masculinity and differentiating between them, especially when considering social and cultural differences rather than differences in biology

ANSWERS: 8. thumb, 9. fascinating, 10. chromosomes, 11. apparently, 12. assemble, 13. gigantic, 14. lab, 15. discovery, 16. gender

17. Einstein was an outstanding and famous _____ of the 20th century.
n. a scientist who specializes in the field of physics
18. The doctors said that her recovery was a _____.
n. an act or occurrence that is not explicable by natural or scientific laws and is therefore believed to be caused by God
19. Tech companies often employ _____ ducts and other materials in their office interiors.
adj. having no protection or shield from something, such as bad weather, attack, or criticism
20. I'm prepared to _____ challenges throughout this adventure.
v. to face something, particularly something unpleasant or difficult, while attempting to do something else; to meet, especially unexpectedly
21. The company's _____ in the market was expanding to new territories.
n. a specific sphere of influence or control; a specific field of knowledge or expertise
22. To assure _____ I recommend investing in high-quality test kits.
n. the state or degree of being exact or correct; the ability to perform something with proficiency and without mistake
23. The company has a diverse workforce representing different _____ and backgrounds.
n. the cultural characteristics of a particular group, such as language, religion, and traditions, that distinguish them from other groups
24. The _____ shape of the vase made it unique and exciting.
adj. lacking symmetry or balance; unevenly or irregularly shaped; not corresponding in terms of quantity, size, or position

ANSWERS: 17. physicist, 18. miracle, 19. exposed, 20. encounter, 21. domain, 22. accuracy, 23. ethnicity, 24. asymmetrical

25. They needed further _____ to perform their duties efficiently.
n. detailed direction, order, etc., on how to do or use something
26. The investigation _____ several government agencies and is expected to take several months.
v. to include or affect someone or something as a necessary part of something else
27. The room was only one _____ wider than the piano, making it a tight fit.
n. a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
28. The _____ cost of the project was estimated to be around \$500,000.
adj. nearly accurate or correct, but not completely so
29. He did _____ pen-and-ink drawings in just a few days.
adj. involving a lot of different things or parts in a way that is difficult to understand or analyze
30. It's important to _____ your strengths and weaknesses.
v. to acknowledge or realize something or someone; to identify, remember, or become aware of something that was previously known or encountered
31. The building makes a remarkable _____ impact.
adj. relating to seeing or sight
32. The human _____ contains approximately three billion chemical base pairs.
n. the complete set or sequence of genes of a human, animal, plant, or other living things

ANSWERS: 25. instruction, 26. involves, 27. centimeter, 28. approximate, 29. complicated, 30. recognize, 31. visual, 32. genome

33. He is a man admired for the depth of his _____.
- n.* a belief, opinion, or image you have based on how you regard, understand, or interpret something; the ability to see, hear, or notice something through the senses
34. She _____ a new chapter into her manuscript.
- v.* to put something inside something else
35. This operation requires both patience and _____.
- n.* the quality or condition of being exact and accurate
36. The _____ demonstrate that poverty and unemployment are genuine problems.
- n.* the discipline that concerns the collection, organization, analysis, interpretation, and presentation of data
37. The researchers try to discover a common _____ in all types of successful organizations.
- n.* one of several parts that combines with others to form something bigger
38. Each country's officials can access the central _____.
- n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily
39. The patient was sent for an X-ray to determine the cause of the _____ in her abdomen.
- n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

ANSWERS: 33. perception, 34. inserted, 35. precision, 36. statistics, 37. component, 38. database, 39. cyst

40. 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

41. She would never _____ hurt anyone.

adv. in a planned or intended way

42. The organizational _____ of start-ups is often flat and straightforward.

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

43. Human _____ responses vary widely depending on the society to which they belong.

adj. relating to people's feelings

44. The scientist conducted a study that provided _____ details about the species' behavior.

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

45. The company _____ a tracking code in the product's packaging to monitor its shipment.

v. to fix or set firmly in a surrounding mass

46. The _____ of the fruit is sweet and juicy.

n. the soft substance composing the body of a person or animal, as opposed to bones and other structures

47. I need to _____ this document before I submit it.

v. to make notes or comments on a text or document

ANSWERS: 40. decide, 41. intentionally, 42. structure, 43. emotional, 44. specific, 45. embedded, 46. flesh, 47. annotate

48. She _____ the money from her savings account to her checking account.
v. to move, pass, or change from one person, place, or situation to another
49. A suspension order from the court is effective _____.
adv. now or without delay
50. The company operates on a three-_____ pricing structure.
n. one of a series of rows or levels arranged one above the other, typically used to describe the arrangement of objects or levels of importance
51. The animal was _____ in a small cage.
v. to restrict the movement of someone or something
52. Only the _____ God has the power to brighten this dark land.
adj. very large, powerful, or strong
53. He grew a thick _____ to change his appearance.
n. hair that grows on a man's face, often around the mouth and chin
54. The structure is _____ of three main components.
v. to write music, poetry, or formal writing; to constitute or make up a whole, or a specified part of it
55. The doctor diagnosed him with a rare _____ that had no known cure.
n. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
56. The magician's performance _____ the audience.
v. to captivate or fascinate; to hold the complete attention of

ANSWERS: 48. transferred, 49. immediately, 50. tier, 51. confined, 52. mighty, 53. beard, 54. composed, 55. disease, 56. mesmerized

57. 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
58. Infant formulas are nutritionally almost _____ to a mother's breast milk.
adj. being the exact same one
59. 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
60. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.
n. a notable or impressive achievement, especially one that requires great skill or bravery
61. All the supervisor has to do is assign tasks that make his subordinates more _____.
adj. relating to or involving the use of skill and original and unusual ideas to create something
62. The juice has a _____ taste.
adj. odd and uncommon, sometimes in an unpleasant way
63. They _____ fun at each other's jokes, laughing and teasing.
v. to push or prod with a sharp object or the finger
64. He studied the _____ of radiation.
n. the science of matter and energy and their interactions

ANSWERS: 57. introduction, 58. identical, 59. complexity, 60. feat, 61. creative, 62. peculiar, 63. poked, 64. physics

65. The actor played a _____ character and had to rely on facial expressions to portray his emotions.

adj. silent; not speaking or unable to speak; not expressed or articulated

66. She vacated the position when she got _____.

adj. having a baby or young animal developing in the uterus

67. 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

68. He got an electric _____ at work.

n. a strong feeling or physical reaction to a sudden and unexpected event or experience, especially something unpleasant

69. Trees absorb _____ dioxide and give off oxygen.

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

70. The content is _____ and informative for me.

adj. sharply exact or accurate or delimited

71. The children were learning to read _____ as part of their literacy lessons.

adv. referring to a method of communication or transmission in which individual letters or characters are spelled out or conveyed one at a time, often used for slow, deliberate, or painstaking communication

72. Multiple genes may influence behavioral _____ concurrently.

n. a particular feature of your nature

ANSWERS: 65. mute, 66. pregnant, 67. biology, 68. shock, 69. carbon, 70. precise, 71. letter-by-letter, 72. traits

73. The _____ of the discussion was the current state of the economy.
n. a subject that is being discussed or written about
74. The outermost electron shell of an _____ determines its chemical characteristics.
n. the smallest unit of ordinary matter that forms a chemical element, composed of a nucleus and one or more electrons bound to the nucleus
75. 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
76. This medication is sealed in a _____.
n. a small glass container, especially one containing liquid medicine or perfume
77. The election was a _____ success for the Whigs.
adj. worthy of attention because unusual or special
78. We do move forward with those tasks in _____ next week.
n. a series of related events, actions, numbers, etc., which have a particular order
79. The _____ and the oxygen react and then form water.
n. the chemical element that is the lightest gas is colorless, odorless, tasteless, and combines with oxygen to form water
80. We must _____ a new system to streamline our workflow and increase efficiency.
v. to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 73. topic, 74. atom, 75. brain, 76. vial, 77. remarkable, 78. sequence, 79. hydrogen, 80. develop

81. The building had a _____ pattern that was pleasing to the eye.

- n.* balance or proportion in design or structure, with elements arranged evenly on either side of an axis

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

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

83. Your _____ reflects your thoughts.

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

84. I _____ the mat before starting my yoga practice.

- v.* to unwind or unfurl something that has been rolled up, such as a carpet or banner; to reveal or make visible something that was previously concealed or hidden

85. Some _____ are common across cultures and backgrounds.

- n.* a strong feeling such as love, anger, etc. deriving from one's situation, mood, or relationships with others

86. He performed his magic trick _____ leaving the audience in awe.

- adv.* onto or on a stage in a theater; in front of an audience

87. Our company's services are targeted at _____ executives.

- n.* a newly established company or business

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

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

ANSWERS: 81. symmetry, 82. absolutely, 83. conversation, 84. unroll, 85. emotions, 86. onstage, 87. start-up, 88. Nitrogen

89. The _____ by the citizen resulted in a redistribution of wealth.
n. a large-scale attempt to overthrow the government of a country, often using violence or war;
90. _____ a number by itself twice.
v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
91. The news of her sudden death was _____ to everyone who knew her.
adj. surprising or shocking; difficult to believe
92. The hunter's approach _____ the geese.
v. to cause to separate and go in different directions
93. A vast _____ chandelier glittered brightly above us.
n. a solid material with many even sides that is formed naturally when the substance becomes solid and has a highly regular atomic structure; clear and colorless glass made of almost pure silica
94. He should _____ more with his colleagues.
v. to communicate or react with somebody
95. She _____ the files into a single ZIP archive to save space on her computer.
v. to press or squeeze together to make something take up less space
96. He gave _____ to his anger by playing the guitar.
n. a small opening to escape or release gas, air, liquid, etc.; activity or process that frees or expresses strong creative energy or emotion

ANSWERS: 89. revolution, 90. Multiply, 91. astonishing, 92. scattered, 93. crystal, 94. interact, 95. compressed, 96. vent

97. It'll be somewhere in the _____ of \$100.

v. a place or facility where baseball is played; a rough estimation of something

98. He strove to memorize the Hebrew _____.

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

99. It's notoriously challenging to _____ birth rates.

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

100. He was pretty _____ to pass the exam.

adj. having good luck or lucky

101. Ethics is a branch of _____.

n. the study of general and fundamental questions, such as those about existence, reason, knowledge, values, mind

102. _____ in the design could cause much worse issues.

n. an imperfection, shortcoming, or lack of something or someone

103. He is proud of the _____ of the business.

n. the property of being long-lived; significant duration of service

104. He stepped on the gas pedal, and the engine released a loud ____.

n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute

105. The _____ set of instructions made it easy to assemble the furniture.

adj. having clear and precise boundaries or characteristics; distinctly outlined or delimited; easily understood or recognizable

ANSWERS: 97. ballpark, 98. alphabet, 99. predict, 100. fortunate, 101. philosophy, 102. Defects, 103. longevity, 104. rev, 105. well-defined

106. She was struggling to make a _____ between two job offers.

n. the act or process of making up someone's mind about something; a choice or judgment reached after considering options

107. The photographer _____ the image to enhance the lighting and contrast.

v. to edit or manipulate digital images or photographs using Adobe Photoshop software or similar tools

108. The _____ ship sank on its maiden voyage.

adj. of or having a great size, power, or influence; of or relating to Titanium (= a light, strong grey, lustrous, corrosion-resistant metallic element)

109. The doctor diagnosed him with cardiac _____ which put him at risk for heart failure.

n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure

110. One such rapidly growing _____ is quantum cryptography.

n. an idea or principle associated with something abstract

111. He that would eat the kernel must _____ the nut.

v. to break or cause to break without dividing into separate parts; (noun) a line on the surface of something along which it has separated without breaking

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

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

ANSWERS: 106. decision, 107. photoshopped, 108. titanic, 109. fibrosis, 110. concept, 111. crack, 112. dots

113. _____ the text from Italian into English.

v. to convert or change words into another language

114. The government was _____ for its handling of the crisis.

v. to express strong disapproval or criticism of something

115. Breast _____ is the most common type of cancer in women.

n. abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells

116. These results muddied the _____.

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

117. Shakespeare's output of poetry was _____.

adj. extremely large or great

118. He finally decided to _____ problems directly.

v. to face, meet or deal with a problem or difficult situation or person

119. The _____ properties of this herb have been known to help with various ailments.

adj. of or relating to the treatment or cure of disease

ANSWERS: 113. Translate, 114. condemned, 115. cancer, 116. prediction, 117. enormous, 118. confront, 119. medicinal