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Alexander Tsiaras: Conception to birth -- visualized | TED Talk
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All Words

IMPORTANT

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Session 1: Word List

associate

v. to mentally connect someone or something with someone or something else

synonym: tie in, link, consociate

(1) **associate** alcohol with gambling, (2) **associate** with people widely

The majority of consumers **associate** this brand with quality.

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.

chief

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

synonym: essential, primary, leading

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

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

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.

depart

v. to go away or leave, especially to start a journey

synonym: go away, leave, vacate

(1) arrive and **depart** on time, (2) **depart** from the faith

We **departed** before the temperature fell below zero.

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.

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.

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.

preparation

n. the activity of getting ready for something or making something ready

synonym: practice, trial, rehearsal

(1) a **preparation** program, (2) the **preparation** of meals

He helped me with the **preparation** of this book.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym : spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

flee

v. to leave by running away, especially out of fear or danger

synonym : exit, escape, run away

(1) **flee** their homes, (2) **flee** abroad

It is a basic instinct to **flee** from a dangerous situation.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym : automated, mechanical, laborsaving

(1) **robotic** arm, (2) **robotic** guide operation

The surgeon removed the tumor using **robotic** video assistance.

pod

n. a seed case, especially of a leguminous plant such as a pea or bean; a detachable container of something, especially on an airplane

synonym : capsule, seed case, husk

(1) escape **pod**, (2) cocoa **pod**

The **pod** of whales swam gracefully through the water.

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.

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.

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.

marvel

n. someone something that causes feelings of wonder or surprise

synonym: wonder, phenomenon, amazement

(1) a **marvel** of beauty, (2) technical **marvel**

The space shuttle is a modern engineering **marvel**.

collagen

n. a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues

synonym: gelatin, protein, tissue

(1) **collagen** supplement, (2) **collagen** production

Our natural **collagen** production decreases as we age, leading to wrinkles, sagging skin, and joint pain.

nail

n. a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes

synonym: pin, tack, fastener

(1) rusty **nail**, (2) **nail** clipper

He used a hammer and round **nail** to fix the loose board on the fence.

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.

twirl

v. to rotate rapidly around a central point; to spin or whirl around in a circular or spiral motion

synonym : spin, swirl, rotate

(1) **twirl** a ribbon, (2) **twirl** a hula hoop

She **twirled** her hair absentmindedly as she listened to the conversation.

swirl

v. to move in a circular or spiral pattern

synonym : spin, whirl, turn

(1) **swirl** the wine, (2) **swirl** up dirt and dust

The chef expertly **swirled** the sauce onto the plate.

cornea

n. the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina

synonym : eye membrane, eye lens

(1) **cornea** transplant, (2) **cornea** damage

A scratched **cornea** can be very painful and may cause blurry vision.

grid

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

synonym : gridiron, battery grid, power system

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

Grid pattern roads often appear in urban areas.

transparent

adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely

synonym : translucent, evident, diaphanous

(1) a **transparent** lie, (2) **transparent** crystal

The focus of these initiatives is to make the financial system more **transparent**.

opposed

adj. being completely different from something or disagreeing strongly with something

synonym : anti, averse, hostile

(1) two **opposed** characters, (2) absolutely **opposed** to abortion

I'm strongly **opposed** to that plan.

opaque

adj. not transparent; not allowing light to pass through; not permitting a clear view

synonym : impenetrable, obscure, cloudy

(1) **opaque** material, (2) **opaque** color

The curtains were made of **opaque** fabric that blocked out all light.

attribute

v. to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;

synonym : ascribe, blame, (noun) feature

(1) **attribute** the change to their marriage, (2) **attribute** directly to sales

He **attributes** the disappointing results to the economic downturn.

divinity

n. the state or quality of being divine; the state of being a god or goddess; the study of religious beliefs and practices

synonym : godhead, deity, divineness

(1) an indwelling **divinity**, (2) **divinity** degree

The ancient civilization revered the **divinity** of the god.

opportune

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

synonym : suitable, timely, practical

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

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

magnetic

adj. having the properties of attracting or repelling certain materials containing iron or steel

synonym : attractive, drawing, hypnotic

(1) **magnetic** field, (2) a **magnetic** tape

The **magnetic** force of the earth keeps our planet spinning.

resonance

n. a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things

synonym : echo, vibration, reverberation

(1) **resonance** frequency, (2) harmonic **resonance**

The singer's voice filled the auditorium with beautiful **resonance**.

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.

fetus

n. an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal

(1) development of the **fetus**, (2) an aborted **fetus**

The female vagina is elastic enough to allow the passage of a **fetus**.

conception

n. a general idea or belief of what something or someone is like or should be; an understanding of a situation or a principle

synonym :

notion, abstraction, cogitation

(1) a grand **conception**, (2) the **conception** of the good
I have no **conception** of what you intend.

hardware

n. durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems

synonym: gear, apparatus, gadget

(1) the **hardware** department, (2) a vast inventory of **hardware**

The mouse and keyboard are essential **hardware** for operating a PC.

invention

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

synonym: creation, design, innovation

(1) the **invention** of new techniques, (2) common **invention**
Necessity is the mother of **invention**.

sperm

n. the reproductive cell produced by a man or male animal

synonym: seed, semen, seminal fluid

(1) man with a low **sperm** count, (2) production of **sperm**
The male **sperm** fertilizes the female egg.

division

n. the act or outcome of splitting into separate parts; a critical organizational unit or sector

synonym: branch, separator, section

(1) cellular **division**, (2) **division** chief

Which **division** of the company do you work in?

fertilize

v. to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well

synonym: pollinate, inseminate, enrich

(1) **fertilize** the soil, (2) **fertilize** the female egg

The couple decided to use the non-husband sperm to

fertilize a wife.

ovary

n. either of the pair of organs in the female reproductive system that produces eggs; (of a plant) the organ that bears the ovules of a flower

(1) **ovary** atrophy, (2) salted **ovary** of walleye pollack
They found **ovary** cancer in an early stage.

divide

v. to separate or cause to separate into parts or groups
synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

fusion

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

synonym: merger, consolidation, amalgamation

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

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

anew

adv. in a new or different way

synonym: again, once more, fresh

(1) arm **anew**, (2) review **anew**

He decided to start **anew** and leave his old life behind.

embryo

n. an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed

synonym: fetus, seed, origin

(1) destruction of human **embryos**, (2) **embryo** cloning

Our latest project is still at the **embryo** stage.

yolk

n. the yellow central part of an egg, surrounded by the egg white, which provides nutrients for an embryo during its development

synonym: egg, ovum, yellow

(1) **yolk** lipid, (2) egg **yolk**

The chef separated the egg white from the **yolk** to make a perfect souffle.

sack

v. to remove or dismiss someone from a position or place;
(noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things

synonym: discharge, remove, (noun) bag

(1) **sack** an employee, (2) a sleep **sack**

He was **sacked** from his job for stealing company property.

chamber

n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament

synonym: association, cabin, legislature

(1) a gas **chamber**, (2) the lower **chamber**

The surgeon made an incision in the **chambers** of the patient's heart.

primitive

adj. of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

synonym: elementary, naive, rudimentary

(1) **primitive** society, (2) artifact of a **primitive** humankind

The industry in this country is still **primitive**.

vertebra

n. a bone in the spine, or the spinal column forming the supporting structure of the spine and protecting the spinal cord

(1) cervical **vertebra**, (2) **vertebra** injury

He uses a **vertebra** traction machine for his treatment.

retina

n. the innermost light-sensitive membrane covering the back wall of the eyeball

(1) **retinal** cells, (2) **retina** scanner

Damage to the **retina** may play a role in the development of glaucoma.

continually

adv. in a way that happens without interruption or repeatedly
synonym : repeatedly, frequently, constantly

(1) **continually** access information, (2) **continually** changing world

Her tongue runs on **continually**.

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.

womb

n. the organ of a woman or female mammal in which a baby develops before birth

synonym : uterus, matrice

(1) tumor of **womb**, (2) **womb** transplant

The fertilized egg implanted itself in the **womb**.

muscular

adj. of or relating to the muscles; having or suggesting great physical power or force

synonym : powerful, athletic, brawny

(1) a **muscular** person, (2) **muscular** contraction

She worked hard to treat her **muscular** dystrophy.

skeletal

adj. of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated

synonym : bony, emaciated, gaunt

(1) **skeletal** system, (2) **skeletal** muscles

The older man was skinny and **skeletal** and not in good health.

indifferent

adj. having no strong feelings or preferences one way or the other, neutral

synonym : apathetic, disinterested, unmoved

(1) an **indifferent** glance, (2) emotionally **indifferent**
Despite the good news, she remained **indifferent** to the situation.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

delivery

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

synonym: sending, transporting, bringing

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

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

expulsion

n. the act of forcing someone to leave a place or organization, especially permanently

synonym: ejection, banishment, exile

(1) **expulsion** of gas, (2) forceful **expulsion**

The ambassador's **expulsion** was a sign of the deteriorating relations between the two countries.

spectacular

adj. striking or impressive to look at or in performance or achievement

synonym: breathtaking, impressive, grand

(1) **spectacular** view, (2) achieve **spectacular** growth

The **spectacular** fireworks display was the highlight of the festival.

unbelievable

adj. beyond belief or understanding and extremely surprising

synonym: unimaginable, incredible, fantastical

(1) **unbelievable** beauty, (2) cause **unbelievable** damage

He drinks an **unbelievable** amount of beer.

machinery

n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

synonym: apparatus, appliance, equipment

(1) heavy **machinery**, (2) inactive **machinery**

The **machinery** of audit formally issued a business improvement order.

magic

n. beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

synonym: fascination, illusion, wizardry

(1) a **magic** spell, (2) she is **magic**

He performed **magic** tricks with sophisticated moves.

cluster

n. a group of similar things or people close together, often forming a distinct mass or unit

synonym: group, aggregation, array

(1) live in a **cluster**, (2) a **cluster** of stars

A **cluster** of grapes hung from the vine.

tissue

n. an ensemble of similar cells of the animal or plant that together carry out a specific function

synonym: structure, texture, anatomy

(1) a facial **tissue**, (2) loss of muscle **tissue**

The researcher separated the nervous **tissue** for microscopic examinations.

trophoblast

n. a layer of cells that forms the outer surface of the early embryo and later develops into the placenta, providing nourishment and support to the developing fetus

(1) **trophoblast** invasion, (2) **trophoblast** development

The **trophoblast** layer plays a critical role in embryo implantation within the uterus.

blastocyst

n. an early stage in the development of an embryo, consisting of a hollow ball of cells that implants into the uterine wall during pregnancy

synonym : embryo, blastula

(1) embryonic **blastocyst**, (2) frozen **blastocyst**

The fertilized egg develops into a **blastocyst** before implanting into the uterine wall.

burrow

v. to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal

synonym : tunnel, dig, excavate

(1) **burrow** through the forest, (2) **burrow** into a mystery

You can't **burrow** through solid metal.

uterus

n. a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth

synonym : womb

(1) **uterus** cancer, (2) bleeding from **uterus**

The physician prescribed medication to relieve the contraction of the **uterus**.

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.

communicate

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

synonym : convey, share, transmit

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

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

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

estrogen

n. a category of female steroid sex hormone responsible for the development and regulation of the female reproductive system and secondary sex characteristics

(1) **estrogen** receptor, (2) **estrogen-responsive** breast cancer

The older woman also suffers bone loss caused by **estrogen** deficiency.

progesterone

n. a hormone mainly produced in the ovaries of females that helps regulate the menstrual cycle and plays a crucial role in pregnancy

synonym: progestin, gestagen, luteal hormone

(1) **progesterone** receptor, (2) synthetic **progesterone**

During pregnancy, **progesterone** levels rise to support the growth of the fetus.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

triple

adj. consisting of three items or people; three times as great or many

synonym: threefold

(1) a **triple** mirror, (2) **triple** digits

His coach is a **triple** Olympic champion.

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.

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.

mechanism

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

synonym : means, method, system

(1) the **mechanism** for DNA replication, (2) defense **mechanism**

He discovered unique **mechanisms** for photochemical reactions.

strand

n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

synonym : fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA

I heard several melodic **strands** simultaneously.

magnificent

adj. extremely beautiful and impressive; grand or noble in thought or deed

synonym : splendid, brilliant, exquisite

(1) a **magnificent** plan, (2) a **magnificent** mountain

The **magnificent** scene of the glacier is awe-inspiring.

origami

n. the Japanese art or practice of folding paper into decorative shapes and figures

synonym : paper folding, paper art

(1) **origami** paper, (2) **origami** art

I love making **origami** cranes during my free time.

atrium

n. a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear

synonym : lobby, hall, chamber

(1) **atrium** architecture, (2) **atrium** valve

The office building had a beautiful **atrium** in the center, filled with natural light and plants.

ventricle

n. a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

synonym: chamber, pumping heart muscle

(1) left **ventricle**, (2) **ventricle** in the brain

The heart's **ventricles** are responsible for pumping blood out to the body.

papilla

n. a small, nipple-like projection or bump on the surface of an organ or tissue, typically involved in absorption or sensory perception

synonym: nipple, projection, bump

(1) **papilla** duct, (2) **papilla** hair cells

The **papilla** on the tongue helps to detect taste.

valve

n. a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening

synonym: tap, spigot, faucet

(1) electromagnetic **valve**, (2) **valve** control

The **valve** on the pipeline was leaking, so maintenance had to shut it off to make repairs.

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.

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.

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.

mathematics

n. the science dealing with the logic of quantities, shapes, spaces, and arrangement

synonym: arithmetic, calculation, calculus

(1) a good grounding in **mathematics**, (2) **mathematics** competition

He has a flair for **mathematics**.

comprehension

n. the ability to understand or grasp the meaning of something, especially through knowledge or experience

synonym: understanding, knowledge, insight

(1) **comprehension** level, (2) a listening **comprehension** test

Her **comprehension** of the material was impressive for someone so young.

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.

mystery

n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

synonym: enigma, puzzle, secret

(1) **mystery** novel, (2) unsolved **mystery**

The **mystery** surrounding the disappearance of the traveler has yet to be solved by authorities.

tuft *n.* a small cluster or clump of something, typically hair, grass, or feathers, that stands upright and apart from the surrounding material
synonym : clump, bunch, cluster
(1) capillary **tuft**, (2) **tuft** of grass
The **tuft** of hair on the cat's head stood straight in alarm.

capillary *n.* a tube of small internal diameter; any of the minute tubes that carry blood
(1) a **capillary** tube, (2) **capillary** action
There are many **capillary** vessels in the gills of fish.

microscopic *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
synonym : infinitesimal, tiny, atomic
(1) **microscopic** inquiry, (2) **microscopic** analysis
Inspectors noticed **microscopic** cracks in the submarine's hull.

vessel *n.* a ship or large boat
synonym : boat, ship, craft
(1) blood **vessels**, (2) naval **vessels**
The **vessel** arrived in port the following day.

visible *adj.* capable of being seen; or open to easy view
synonym : clear, observable, seeable
(1) **visible** stars, (2) **visible** by X-ray
My home is easily **visible** from the shore.

nutrient *n.* any substance that is essential for the maintenance and growth of living things
synonym : food, vitamin
(1) **nutrient** medicine, (2) a **nutrient** for hair

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

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**.

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.

launch

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

synonym: start, initiate, begin

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

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

gyrus

n. a convolution of the surface of the brain

synonym: convolution, brain fold, cerebral sulcus

(1) **gyrus** function, (2) cerebral **gyrus**

The inferior temporal **gyrus** is involved in object recognition.

sulcus

n. a furrow, groove, or depression, particularly one found in the surface or structure of an anatomical part, such as the brain or bone

synonym: groove, furrow, depression

(1) **sulcus** groove, (2) cortical **sulcus**

The hiker tripped and fell into a deep **sulcus** on the trail, spraining his ankle.

immunology

n. the branch of medical science that deals with the immune system of the body and its functions, including the body's response to foreign substances such as viruses and bacteria; it also involves the study of immunodeficiencies, autoimmune diseases, and immunotherapies

synonym: study of immunity, immunobiology, serology

(1) **immunology** research, (2) **immunology** laboratory
Recent advances in **immunology** have shown promise in the fight against cancer

cardiovascular

adj. of or relating to the heart and blood vessels (= tubes that carry blood around the body)

(1) **cardiovascular** diseases, (2) **cardiovascular** tissue
Smoking places you at severe risk of **cardiovascular** and respiratory disease.

nurture

v. to take care of, feed, and protect someone or something while they are growing and developing

synonym: boost, cultivate, enable

(1) **nurture** love, (2) **nurture** his talents
Schools should **nurture** children's mutual interest spirit.

Session 2: Spelling

1. a ma___l of beauty *n.* someone something that causes feelings of wonder or surprise
2. pr_____ve society *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
3. 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
4. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
5. the pre_____on of meals *n.* the activity of getting ready for something or making something ready
6. a st___d of fine hair *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
7. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
8. a grand con_____on *n.* a general idea or belief of what something or someone is like or should be; an understanding of a situation or a principle
9. 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

ANSWERS: 1. marvel, 2. primitive, 3. recognize, 4. opportune, 5. preparation, 6. strand, 7. genetic, 8. conception, 9. develop

10. com_____ion level *n.* the ability to understand or grasp the meaning of something, especially through knowledge or experience
11. trading of vi_____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
12. the lower ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
13. op_____e color *adj.* not transparent; not allowing light to pass through; not permitting a clear view
14. sk_____al system *adj.* of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated
15. 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
16. de_____t from the faith *v.* to go away or leave, especially to start a journey
17. con_____ly changing world *adv.* in a way that happens without interruption or repeatedly
18. re_____a scanner *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
19. cellular di_____on *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector

ANSWERS: 10. comprehension, 11. virtual, 12. chamber, 13. opaque, 14. skeletal, 15. surgery, 16. depart, 17. continually, 18. retina, 19. division

20. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
21. ov__y atrophy *n.* either of the pair of organs in the female reproductive system that produces eggs; (of a plant) the organ that bears the ovules of a flower
22. con_____ion in English *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
23. bu___w into a mystery *v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
24. spe_____ar view *adj.* striking or impressive to look at or in performance or achievement
25. embryonic bla_____st *n.* an early stage in the development of an embryo, consisting of a hollow ball of cells that implants into the uterine wall during pregnancy
26. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things
27. at_____te the change to their marriage *v.* to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;
28. a cl_____r of stars *n.* a group of similar things or people close together, often forming a distinct mass or unit
29. s__k an employee *v.* to remove or dismiss someone from a position or place; (noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things

ANSWERS: 20. microscopic, 21. ovary, 22. conversation, 23. burrow, 24. spectacular, 25. blastocyst, 26. nutrient, 27. attribute, 28. cluster, 29. sack

30. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves
31. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
32. basic br__n function *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
33. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
34. at___m architecture *n.* a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear
35. ro_____c guide operation *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
36. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
37. vi_____e by X-ray *adj.* capable of being seen; or open to easy view
38. a wire g__d *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
39. ex_____on of gas *n.* the act of forcing someone to leave a place or organization, especially permanently

ANSWERS: 30. nervous, 31. biology, 32. brain, 33. complexity, 34. atrium, 35. robotic, 36. invention, 37. visible, 38. grid, 39. expulsion

40. la___h a big attack *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
41. ch__f accountant *adj.* most important or primary; (noun) a person who is in charge
42. naval ve___ls *n.* a ship or large boat
43. the ha_____re department *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
44. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
45. a g__d design *n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
46. field of artificial int_____nce *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
47. the con_____on of the good *n.* a general idea or belief of what something or someone is like or should be; an understanding of a situation or a principle
48. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
49. bleeding from ut___s *n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth

ANSWERS: 40. launch, 41. chief, 42. vessel, 43. hardware, 44. scan, 45. grid, 46. intelligence, 47. conception, 48. visualize, 49. uterus

50. imm_____gy laboratory *n.* the branch of medical science that deals with the immune system of the body and its functions, including the body's response to foreign substances such as viruses and bacteria; it also involves the study of immunodeficiencies, autoimmune diseases, and immunotherapies
51. a tr___e mirror *adj.* consisting of three items or people; three times as great or many
52. a facial ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
53. a sleep s__k *v.* to remove or dismiss someone from a position or place; (noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things
54. di_____e prevention *n.* a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems
55. gy__s function *n.* a convolution of the surface of the brain
56. egg y__k *n.* the yellow central part of an egg, surrounded by the egg white, which provides nutrients for an embryo during its development
57. ma_____ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel

ANSWERS: 50. immunology, 51. triple, 52. tissue, 53. sack, 54. disease, 55. gyrus, 56. yolk, 57. magnetic

58. at inc_____le speed *adj.* unbelievable; enormous
59. com_____te his anxieties to the psychiatrist *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
60. tro_____st invasion *n.* a layer of cells that forms the outer surface of the early embryo and later develops into the placenta, providing nourishment and support to the developing fetus
61. a tra_____nt lie *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
62. em___o cloning *n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
63. an aborted fe___s *n.* an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal
64. 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
65. technical ma___l *n.* someone something that causes feelings of wonder or surprise
66. ve_____ra injury *n.* a bone in the spine, or the spinal column forming the supporting structure of the spine and protecting the spinal cord

ANSWERS: 58. incredible, 59. communicate, 60. trophoblast, 61. transparent, 62. embryo, 63. fetus, 64. develop, 65. marvel, 66. vertebra

67. re_____ce frequency *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
68. a mu_____ar person *adj.* of or relating to the muscles; having or suggesting great physical power or force
69. tw__l a hula hoop *v.* to rotate rapidly around a central point; to spin or whirl around in a circular or spiral motion
70. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
71. escape p_d *n.* a seed case, especially of a leguminous plant such as a pea or bean; a detachable container of something, especially on an airplane
72. vi_____ze flying through space *v.* to form a mental image or concept of something; to make something visible
73. co_____en supplement *n.* a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues
74. 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

ANSWERS: 67. resonance, 68. muscular, 69. twirl, 70. medicinal, 71. pod, 72. visualize, 73. collagen, 74. movement

75. at___m valve *n.* a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear
76. t__t of grass *n.* a small cluster or clump of something, typically hair, grass, or feathers, that stands upright and apart from the surrounding material
77. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
78. electromagnetic va__e *n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
79. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
80. ch__f events of the year *adj.* most important or primary; (noun) a person who is in charge
81. harmonic re_____ce *n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
82. review a__w *adv.* in a new or different way

ANSWERS: 75. atrium, 76. tuft, 77. determinant, 78. valve, 79. microscopic, 80. chief, 81. resonance, 82. anew

83. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
84. ro_____c arm *adj.* of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
85. a gas ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
86. unsolved my_____y *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
87. special de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
88. follow his ins_____ons *n.* detailed direction, order, etc., on how to do or use something
89. car_____lar tissue *adj.* of or relating to the heart and blood vessels (= tubes that carry blood around the body)
90. as_____ut mission *n.* a person trained by a space agency to travel outside the Earth's atmosphere
91. ut____s cancer *n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth

ANSWERS: 83. communicate, 84. robotic, 85. chamber, 86. mystery, 87. delivery, 88. instruction, 89. cardiovascular, 90. astronaut, 91. uterus

92. inc_____le amount *adj.* unbelievable; enormous
93. production of sp__m *n.* the reproductive cell produced by a man or male animal
94. arm a__w *adv.* in a new or different way
95. completely fas_____ng to me *adj.* extremely interesting
96. co___a damage *n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina
97. la___h a spaceship into orbit *v.* to send or propel something into the air or space using a device such as a rocket, missile, or spacecraft; to make something available or on sale for the first time
98. a listening com_____ion test *n.* the ability to understand or grasp the meaning of something, especially through knowledge or experience
99. left ve_____le *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
100. di_____ty degree *n.* the state or quality of being divine; the state of being a god or goddess; the study of religious beliefs and practices
101. heat fu___n *n.* the process of combining two or more things to form a single entity
102. man with a low sp__m count *n.* the reproductive cell produced by a man or male animal
103. va__e control *n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening

ANSWERS: 92. incredible, 93. sperm, 94. anew, 95. fascinating, 96. cornea, 97. launch, 98. comprehension, 99. ventricle, 100. divinity, 101. fusion, 102. sperm, 103. valve

104. the me_____sm for DNA replication *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
105. environmental det_____nt *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
106. a ma__c spell *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
107. f__e abroad *v.* to leave by running away, especially out of fear or danger
108. y__k lipid *n.* the yellow central part of an egg, surrounded by the egg white, which provides nutrients for an embryo during its development
109. a friendly con_____ion *n.* an informal talk between two or more people to exchange their views, ideas, information, etc.
110. a pre_____on program *n.* the activity of getting ready for something or making something ready
111. capillary t__t *n.* a small cluster or clump of something, typically hair, grass, or feathers, that stands upright and apart from the surrounding material
112. heavy ma_____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something

ANSWERS: 104. mechanism, 105. determinant, 106. magic, 107. flee, 108. yolk, 109. conversation, 110. preparation, 111. tuft, 112. machinery

113. development of the fe__s *n.* an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal
114. co____en production *n.* a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues
115. blood ve___ls *n.* a ship or large boat
116. cervical ve____ra *n.* a bone in the spine, or the spinal column forming the supporting structure of the spine and protecting the spinal cord
117. synthetic pro____one *n.* a hormone mainly produced in the ovaries of females that helps regulate the menstrual cycle and plays a crucial role in pregnancy
118. traditional me____al *adj.* of or relating to the treatment or cure of disease
119. tr___e digits *adj.* consisting of three items or people; three times as great or many
120. inactive ma____ry *n.* a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
121. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling

ANSWERS: 113. fetus, 114. collagen, 115. vessel, 116. vertebra, 117. progesterone, 118. medicinal, 119. triple, 120. machinery, 121. brain

122. fu___n cuisine *n.* the process of combining two or more things to form a single entity
123. re___al cells *n.* the innermost light-sensitive membrane covering the back wall of the eyeball
124. as_____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
125. ve_____le in the brain *n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body
126. vi_____e stars *adj.* capable of being seen; or open to easy view
127. arrive and de___t on time *v.* to go away or leave, especially to start a journey
128. or_____i paper *n.* the Japanese art or practice of folding paper into decorative shapes and figures
129. mu_____ar contraction *adj.* of or relating to the muscles; having or suggesting great physical power or force
130. fas_____ng story *adj.* extremely interesting
131. sw__l up dirt and dust *v.* to move in a circular or spiral pattern
132. artifact of a pr_____ve humankind *adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style
133. car_____lar diseases *adj.* of or relating to the heart and blood vessels (= tubes that carry blood around the body)

ANSWERS: 122. fusion, 123. retina, 124. astronaut, 125. ventricle, 126. visible, 127. depart, 128. origami, 129. muscular, 130. fascinating, 131. swirl, 132. primitive, 133. cardiovascular

134. at_____te directly to sales *v.* to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;
135. cortical su____s *n.* a furrow, groove, or depression, particularly one found in the surface or structure of an anatomical part, such as the brain or bone
136. an int_____nce test *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
137. nu_____nt medicine *n.* any substance that is essential for the maintenance and growth of living things
138. sw__l the wine *v.* to move in a circular or spiral pattern
139. a ma_____ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel
140. an easy de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
141. tra_____nt crystal *adj.* easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
142. imm_____gy research *n.* the branch of medical science that deals with the immune system of the body and its functions, including the body's response to foreign substances such as viruses and bacteria; it also involves the study of immunodeficiencies, autoimmune diseases, and immunotherapies

ANSWERS: 134. attribute, 135. sulcus, 136. intelligence, 137. nutrient, 138. swirl, 139. magnetic, 140. delivery, 141. transparent, 142. immunology

143. forceful ex_____on *n.* the act of forcing someone to leave a place or organization, especially permanently
144. live in a cl_____r *n.* a group of similar things or people close together, often forming a distinct mass or unit
145. a ca_____ry tube *n.* a tube of small internal diameter; any of the minute tubes that carry blood
146. st_____re and function of the brain *n.* the way of construction of something and the arrangement of its parts, or a complex thing constructed of many parts
147. nu_____e love *v.* to take care of, feed, and protect someone or something while they are growing and developing
148. double-st____d DNA *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
149. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
150. a mag_____nt plan *adj.* extremely beautiful and impressive; grand or noble in thought or deed
151. nu_____e his talents *v.* to take care of, feed, and protect someone or something while they are growing and developing
152. di____e money equally *v.* to separate or cause to separate into parts or groups
153. my_____y novel *n.* something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle

ANSWERS: 143. expulsion, 144. cluster, 145. capillary, 146. structure, 147. nurture, 148. strand, 149. opportune, 150. magnificent, 151. nurture, 152. divide, 153. mystery

154. fe_____ze the female egg *v.* to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well
155. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups
156. sk_____al muscles *adj.* of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated
157. defense me_____sm *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
158. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
159. or_____i art *n.* the Japanese art or practice of folding paper into decorative shapes and figures
160. have ge_____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
161. get ne_____s *adj.* worried and anxious about something; relating to the nerves
162. 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
163. n__l clipper *n.* a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes

ANSWERS: 154. fertilize, 155. divide, 156. skeletal, 157. mechanism, 158. biology, 159. origami, 160. genetic, 161. nervous, 162. disease, 163. nail

164. op___e material *adj.* not transparent; not allowing light to pass through; not permitting a clear view
165. 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
166. tro_____st development *n.* a layer of cells that forms the outer surface of the early embryo and later develops into the placenta, providing nourishment and support to the developing fetus
167. mat_____cs competition *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
168. a good grounding in mat_____cs *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
169. absolutely op_____d to abortion *adj.* being completely different from something or disagreeing strongly with something
170. an indwelling di_____ty *n.* the state or quality of being divine; the state of being a god or goddess; the study of religious beliefs and practices
171. 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

ANSWERS: 164. opaque, 165. recognize, 166. trophoblast, 167. mathematics, 168. mathematics, 169. opposed, 170. divinity, 171. surgery

172. tumor of w__b *n.* the organ of a woman or female mammal in which a baby develops before birth
173. 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
174. ca_____ry action *n.* a tube of small internal diameter; any of the minute tubes that carry blood
175. con_____ly access information *adv.* in a way that happens without interruption or repeatedly
176. unb_____ble beauty *adj.* beyond belief or understanding and extremely surprising
177. es_____en-responsive breast cancer *n.* a category of female steroid sex hormone responsible for the development and regulation of the female reproductive system and secondary sex characteristics
178. cerebral gy__s *n.* a convolution of the surface of the brain
179. bu___w through the forest *v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
180. w__b transplant *n.* the organ of a woman or female mammal in which a baby develops before birth
181. cocoa p_d *n.* a seed case, especially of a leguminous plant such as a pea or bean; a detachable container of something, especially on an airplane

ANSWERS: 172. womb, 173. structure, 174. capillary, 175. continually, 176. unbelievable, 177. estrogen, 178. gyrus, 179. burrow, 180. womb, 181. pod

182. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
183. su___s groove *n.* a furrow, groove, or depression, particularly one found in the surface or structure of an anatomical part, such as the brain or bone
184. salted ov__y of walleye pollack *n.* either of the pair of organs in the female reproductive system that produces eggs; (of a plant) the organ that bears the ovules of a flower
185. pa_____a hair cells *n.* a small, nipple-like projection or bump on the surface of an organ or tissue, typically involved in absorption or sensory perception
186. pro_____one receptor *n.* a hormone mainly produced in the ovaries of females that helps regulate the menstrual cycle and plays a crucial role in pregnancy
187. 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
188. frozen bla_____st *n.* an early stage in the development of an embryo, consisting of a hollow ball of cells that implants into the uterine wall during pregnancy
189. she is ma__c *n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers

ANSWERS: 182. invention, 183. sulcus, 184. ovary, 185. papilla, 186. progesterone, 187. algorithm, 188. blastocyst, 189. magic

190. an ind_____nt glance *adj.* having no strong feelings or preferences one way or the other, neutral
191. f__e their homes *v.* to leave by running away, especially out of fear or danger
192. 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
193. emotionally ind_____nt *adj.* having no strong feelings or preferences one way or the other, neutral
194. pa_____a duct *n.* a small, nipple-like projection or bump on the surface of an organ or tissue, typically involved in absorption or sensory perception
195. loss of muscle ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
196. a vi_____l image *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
197. a vast inventory of ha_____re *n.* durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
198. fe_____ze the soil *v.* to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well

ANSWERS: 190. indifferent, 191. flee, 192. movement, 193. indifferent, 194. papilla, 195. tissue, 196. virtual, 197. hardware, 198. fertilize

199. the RSA al_____hm *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
200. a mag_____nt mountain *adj.* extremely beautiful and impressive; grand or noble in thought or deed
201. individual ins_____on *n.* detailed direction, order, etc., on how to do or use something
202. cause unb_____ble damage *adj.* beyond belief or understanding and extremely surprising
203. rusty n__l *n.* a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes
204. tw__l a ribbon *v.* to rotate rapidly around a central point; to spin or whirl around in a circular or spiral motion
205. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
206. es_____en receptor *n.* a category of female steroid sex hormone responsible for the development and regulation of the female reproductive system and secondary sex characteristics
207. destruction of human em___os *n.* an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
208. achieve spe_____ar growth *adj.* striking or impressive to look at or in performance or achievement

ANSWERS: 199. algorithm, 200. magnificent, 201. instruction, 202. unbelievable, 203. nail, 204. twirl, 205. complexity, 206. estrogen, 207. embryo, 208. spectacular

209. two op____d characters *adj.* being completely different from something or disagreeing strongly with something
210. as_____te with people widely *v.* to mentally connect someone or something with someone or something else
211. di_____on chief *n.* the act or outcome of splitting into separate parts; a critical organizational unit or sector
212. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
213. co___a transplant *n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina
214. as_____te alcohol with gambling *v.* to mentally connect someone or something with someone or something else

ANSWERS: 209. opposed, 210. associate, 211. division, 212. scan, 213. cornea, 214. associate

Session 3: Fill in the Blanks

1. The _____ of audit formally issued a business improvement order.
n. a group of large machines or the components of a machine that make it work; social institution functions or structure for doing something
2. The inferior temporal _____ is involved in object recognition.
n. a convolution of the surface of the brain
3. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
4. The older man was skinny and _____ and not in good health.
adj. of, relating to, or forming a skeleton (= frame of bones); very thin or emaciated
5. The office building had a beautiful _____ in the center, filled with natural light and plants.
n. a central or main hall or open space in a building, typically with a skylight or large window, often serving as a gathering area or focal point; (of anatomy) a chamber or cavity within the heart or inner ear
6. He _____ the disappointing results to the economic downturn.
v. to say or regard that something is the result of a particular thing; (noun) a quality or feature that someone or something possesses;
7. The chef expertly _____ the sauce onto the plate.
v. to move in a circular or spiral pattern

ANSWERS: 1. machinery, 2. gyrus, 3. determinant, 4. skeletal, 5. atrium, 6. attributes, 7. swirled

8. The _____ force of the earth keeps our planet spinning.
adj. having the properties of attracting or repelling certain materials containing iron or steel
9. Inspectors noticed _____ cracks in the submarine's hull.
adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy
10. The fertilized egg develops into a _____ before implanting into the uterine wall.
n. an early stage in the development of an embryo, consisting of a hollow ball of cells that implants into the uterine wall during pregnancy
11. Recent advances in _____ have shown promise in the fight against cancer
n. the branch of medical science that deals with the immune system of the body and its functions, including the body's response to foreign substances such as viruses and bacteria; it also involves the study of immunodeficiencies, autoimmune diseases, and immunotherapies
12. The _____ surrounding the disappearance of the traveler has yet to be solved by authorities.
n. something difficult to understand or explain; a secret or enigmatic quality that adds to the fascination or interest of something; a genre of fiction that involves the solution of a crime or a puzzle
13. The chef separated the egg white from the _____ to make a perfect souffle.
n. the yellow central part of an egg, surrounded by the egg white, which provides nutrients for an embryo during its development
14. The couple decided to use the non-husband sperm to _____ a wife.
v. to cause an egg, female animal, or plant to develop by joining sperm from the male with them; to add a natural or chemical substance to land to make plants grow well

ANSWERS: 8. magnetic, 9. microscopic, 10. blastocyst, 11. immunology, 12. mystery, 13. yolk, 14. fertilize

15. 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
16. The curtains were made of _____ fabric that blocked out all light.
adj. not transparent; not allowing light to pass through; not permitting a clear view
17. Can you _____ 123321 by eleven?
v. to separate or cause to separate into parts or groups
18. 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
19. The hiker tripped and fell into a deep _____ on the trail, spraining his ankle.
n. a furrow, groove, or depression, particularly one found in the surface or structure of an anatomical part, such as the brain or bone
20. He decided to start _____ and leave his old life behind.
adv. in a new or different way
21. Despite the good news, she remained _____ to the situation.
adj. having no strong feelings or preferences one way or the other, neutral
22. The mouse and keyboard are essential _____ for operating a PC.
n. durable tools, machinery, and other equipment; the physical and electronic parts of a computer or other electronic systems
23. The surgeon removed the tumor using _____ video assistance.
adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

ANSWERS: 15. biology, 16. opaque, 17. divide, 18. recognize, 19. sulcus, 20. anew, 21. indifferent, 22. hardware, 23. robotic

24. 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
25. We _____ before the temperature fell below zero.
- v.* to go away or leave, especially to start a journey
26. The _____ on the pipeline was leaking, so maintenance had to shut it off to make repairs.
- n.* a device for controlling the flow of a fluid or gas through a pipe or duct by means of a movable part that opens, closes, or restricts the opening
27. The singer's voice filled the auditorium with beautiful _____.
- n.* a deep, full, or reverberating sound or tone; a quality or feeling of a particular emotional or mental vibration or significance; a mutual or sympathetic connection or correspondence between two things
28. The _____ layer plays a critical role in embryo implantation within the uterus.
- n.* a layer of cells that forms the outer surface of the early embryo and later develops into the placenta, providing nourishment and support to the developing fetus
29. The shuttle _____ trained for months before embarking on the space mission.
- n.* a person trained by a space agency to travel outside the Earth's atmosphere
30. The heart's _____ are responsible for pumping blood out to the body.
- n.* a chamber or cavity within an organ or structure, particularly the lower chamber of the heart that pumps blood to the lungs and other parts of the body

ANSWERS: 24. surgery, 25. departed, 26. valve, 27. resonance, 28. trophoblast, 29. astronaut, 30. ventricles

31. The _____ arrived in port the following day.

n. a ship or large boat

32. The majority of consumers _____ this brand with quality.

v. to mentally connect someone or something with someone or something else

33. They found _____ cancer in an early stage.

n. either of the pair of organs in the female reproductive system that produces eggs; (of a plant) the organ that bears the ovules of a flower

34. He suffers from _____ breakdowns.

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

35. The ___ of whales swam gracefully through the water.

n. a seed case, especially of a leguminous plant such as a pea or bean; a detachable container of something, especially on an airplane

36. The _____ scene of the glacier is awe-inspiring.

adj. extremely beautiful and impressive; grand or noble in thought or deed

37. I heard several melodic _____ simultaneously.

n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore

38. Her tongue runs on _____.

adv. in a way that happens without interruption or repeatedly

39. My home is easily _____ from the shore.

adj. capable of being seen; or open to easy view

ANSWERS: 31. vessel, 32. associate, 33. ovary, 34. nervous, 35. pod, 36. magnificent, 37. strands, 38. continually, 39. visible

40. He drinks an _____ amount of beer.

adj. beyond belief or understanding and extremely surprising

41. He discovered unique _____ for photochemical reactions.

n. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction

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

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

43. He was _____ from his job for stealing company property.

v. to remove or dismiss someone from a position or place; (noun) a large bag made of strong, rough material, such as burlap, that is used for storing or carrying things

44. I have no _____ of what you intend.

n. a general idea or belief of what something or someone is like or should be; an understanding of a situation or a principle

45. Her _____ of the material was impressive for someone so young.

n. the ability to understand or grasp the meaning of something, especially through knowledge or experience

46. 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

47. A _____ of grapes hung from the vine.

n. a group of similar things or people close together, often forming a distinct mass or unit

ANSWERS: 40. unbelievable, 41. mechanisms, 42. launch, 43. sacked, 44. conception, 45. comprehension, 46. virtual, 47. cluster

48. They needed further _____ to perform their duties efficiently.
n. detailed direction, order, etc., on how to do or use something
49. Which _____ of the company do you work in?
n. the act or outcome of splitting into separate parts; a critical organizational unit or sector
50. The researcher separated the nervous _____ for microscopic examinations.
n. an ensemble of similar cells of the animal or plant that together carry out a specific function
51. Our latest project is still at the _____ stage.
n. an animal organism in the early stages of growth, either in its mother's womb or in an egg, or a plant that is developing in a seed
52. Your _____ reflects your thoughts.
n. an informal talk between two or more people to exchange their views, ideas, information, etc.
53. The focus of these initiatives is to make the financial system more _____.
adj. easy to perceive, detect, or understand; (of a material or article) permitting light to pass through freely
54. 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
55. They used fast-acting _____ on the flowers in the flower beds.
n. any substance that is essential for the maintenance and growth of living things

ANSWERS: 48. instruction, 49. division, 50. tissue, 51. embryo, 52. conversation, 53. transparent, 54. disease, 55. nutrients

56. Our natural _____ production decreases as we age, leading to wrinkles, sagging skin, and joint pain.
- n.* a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues
57. 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
58. Smoking places you at severe risk of _____ and respiratory disease.
- adj.* of or relating to the heart and blood vessels (= tubes that carry blood around the body)
59. The fertilized egg implanted itself in the _____.
- n.* the organ of a woman or female mammal in which a baby develops before birth
60. _____ pattern roads often appear in urban areas.
- n.* a pattern of regularly spaced horizontal and vertical lines; a system of high tension cables by which electrical power is distributed throughout a region
61. Mining is a _____ source of income for the country.
- adj.* most important or primary; (noun) a person who is in charge
62. The _____ fireworks display was the highlight of the festival.
- adj.* striking or impressive to look at or in performance or achievement
63. She worked hard to treat her _____ dystrophy.
- adj.* of or relating to the muscles; having or suggesting great physical power or force

ANSWERS: 56. collagen, 57. brain, 58. cardiovascular, 59. womb, 60. Grid, 61. chief, 62. spectacular, 63. muscular

64. 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

65. There are many _____ vessels in the gills of fish.

- n.* a tube of small internal diameter; any of the minute tubes that carry blood

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

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

67. 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

68. The space shuttle is a modern engineering _____.

- n.* someone something that causes feelings of wonder or surprise

69. 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

70. A scratched _____ can be very painful and may cause blurry vision.

- n.* the transparent layer at the front of the eye that covers the iris and pupil and helps to focus light onto the retina

71. He helped me with the _____ of this book.

- n.* the activity of getting ready for something or making something ready

ANSWERS: 64. develop, 65. capillary, 66. medicinal, 67. complexity, 68. marvel, 69. structure, 70. cornea, 71. preparation

72. The _____ on the tongue helps to detect taste.
- n.* a small, nipple-like projection or bump on the surface of an organ or tissue, typically involved in absorption or sensory perception
73. Nuclear _____ is a process in which atomic nuclei combine to form heavier nuclei.
- n.* the process of combining two or more things to form a single entity
74. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
75. 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
76. I love making _____ cranes during my free time.
- n.* the Japanese art or practice of folding paper into decorative shapes and figures
77. 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
78. 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
79. He has a flair for _____.
- n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement

ANSWERS: 72. papilla, 73. fusion, 74. invention, 75. movement, 76. origami, 77. visualize, 78. intelligence, 79. mathematics

80. He used a hammer and round _____ to fix the loose board on the fence.
n. a thin, pointed piece of metal with a flat head used for fastening things together; the thin hard layer covering and protecting the outer tip of the fingers or toes
81. The male _____ fertilizes the female egg.
n. the reproductive cell produced by a man or male animal
82. Dolphins use sound to _____ with each other.
v. to share or exchange information with others by speaking, writing, moving your body, or using other signals
83. During pregnancy, _____ levels rise to support the growth of the fetus.
n. a hormone mainly produced in the ovaries of females that helps regulate the menstrual cycle and plays a crucial role in pregnancy
84. Her response revealed _____ idiocy.
adj. unbelievable; enormous
85. I'm strongly _____ to that plan.
adj. being completely different from something or disagreeing strongly with something
86. It is a basic instinct to _____ from a dangerous situation.
v. to leave by running away, especially out of fear or danger
87. The phone rang at the most _____ time.
adj. suitable or happening at a time that is suitable or convenient for a particular purpose

ANSWERS: 80. nail, 81. sperm, 82. communicate, 83. progesterone, 84. incredible, 85. opposed, 86. flee, 87. opportune

88. She _____ her hair absentmindedly as she listened to the conversation.
- v.* to rotate rapidly around a central point; to spin or whirl around in a circular or spiral motion
89. 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
90. She stood on the podium and _____ an audience.
- v.* to examine something hastily, with the eyes or with a machine, to get information
91. He uses a _____ traction machine for his treatment.
- n.* a bone in the spine, or the spinal column forming the supporting structure of the spine and protecting the spinal cord
92. 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
93. He performed _____ tricks with sophisticated moves.
- n.* beliefs and actions employed to influence supernatural beings and forces; any art or performance that invokes supernatural powers
94. The physician prescribed medication to relieve the contraction of the _____.
- n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth
95. The _____ of hair on the cat's head stood straight in alarm.
- n.* a small cluster or clump of something, typically hair, grass, or feathers, that stands upright and apart from the surrounding material

ANSWERS: 88. twirled, 89. genetic, 90. scanned, 91. vertebra, 92. algorithm, 93. magic, 94. uterus, 95. tuft

96. The older woman also suffers bone loss caused by _____ deficiency.
- n.* a category of female steroid sex hormone responsible for the development and regulation of the female reproductive system and secondary sex characteristics
97. The surgeon made an incision in the _____ of the patient's heart.
- n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
98. Schools should _____ children's mutual interest spirit.
- v.* to take care of, feed, and protect someone or something while they are growing and developing
99. The museum houses a _____ collection of Celtic artifacts.
- adj.* extremely interesting
100. The ancient civilization revered the _____ of the god.
- n.* the state or quality of being divine; the state of being a god or goddess; the study of religious beliefs and practices
101. You can't _____ through solid metal.
- v.* to excavate a hole or make a tunnel in the ground by digging, typically for use as a dwelling of an animal
102. The _____ truck arrived with the packages.
- n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
103. The industry in this country is still _____.
- adj.* of or relating to an early stage of society with no industry or technological development; simple, naive, or old-fashioned in style

ANSWERS: 96. estrogen, 97. chambers, 98. nurture, 99. fascinating, 100. divinity, 101. burrow, 102. delivery, 103. primitive

104. The ambassador's _____ was a sign of the deteriorating relations between the two countries.

n. the act of forcing someone to leave a place or organization, especially permanently

105. The female vagina is elastic enough to allow the passage of a _____.

n. an unborn or unhatched animal in the later stages of development showing the main recognizable features of the mature animal

106. Damage to the _____ may play a role in the development of glaucoma.

n. the innermost light-sensitive membrane covering the back wall of the eyeball

107. His coach is a _____ Olympic champion.

adj. consisting of three items or people; three times as great or many

ANSWERS: 104. expulsion, 105. fetus, 106. retina, 107. triple