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Vocabulary Builder Reference from...

Lei Li: The incredible cancer-detecting potential of photoacoustic imaging | TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

breast

n. either of the two round soft parts of a woman's chest which secrete milk after childbirth

synonym : bosom, chest, bust

(1) **breast** cancer, (2) the mountain's **breast**

He grilled the **breast** meat of a chicken.

cant

n. statements, especially about moral, religious, or political nature that are not sincerely believed by the person making them

synonym : buzzword, jargon, pious platitude

(1) take at his **cant**, (2) advertising **cant**

He took her **cant** to heart and made the wrong decision.

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.

invasive

adj. spreading very quickly, and often aggressively, and difficult to stop

synonym: aggressive, rampant, spreading

(1) **invasive** breast cancer, (2) **invasive** species

The **invasive** disease can spread quickly and potentially cause a global pandemic.

lifetime

n. the duration of someone's life or something's existence;

synonym: lifespan, duration

(1) **lifetime** benefits, (2) **lifetime** ban from the sport

She had lived through two world wars in her **lifetime**.

suffer

v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

synonym: endure, undergo, tolerate

(1) **suffer** a setback, (2) **suffer** bad grades

The older man **suffers** from arthritis and finds it difficult to move around.

treatment

n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.

synonym: remedy, antidote, medicine

(1) first-aid **treatment**, (2) **treatment** by diet

The primary purpose of the **treatment** is pain relief.

detect

v. to find or recognize something, especially something difficult to see, hear, etc.

synonym: catch, observe, notice

(1) **detect** a bad event, (2) **detect** smuggling across borders

The security camera has **detected** four intruders.

mammography

n. the process of using X-rays to examine the breast for the early detection of breast cancer

synonym: breast imaging, mammogram, breast X-ray

(1) diagnostic **mammography**, (2) digital **mammography**

Women should get regular **mammography** screenings as a preventative measure for breast cancer.

diagnose

v. to determine or distinguish the nature of a problem or an illness through a careful analysis

synonym: identify, analyze, interpret

(1) **diagnose** the problem, (2) **diagnose** with CT scans

This device is used to **diagnose** brain cancer and other tumors.

detection

n. the act of discovering or identifying the presence of something

synonym: discovery, identification, recognition

(1) **detection** by the security software, (2) importance of early **detection**

This smartphone has a collision **detection** function.

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.

photoacoustic

adj. of or relating to a process that involves the generation of sound waves through the absorption of light energy, particularly in specific medical or scientific imaging techniques

(1) **photoacoustic** microscopy, (2) **photoacoustic** tomography

The new **photoacoustic** device can detect tumors that may have been missed in traditional imaging methods.

accurate

adj. correct and exact in all details

synonym: exact, precise, proper

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

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

affordable

adj. not expensive and able to pay

synonym: cheap, reasonable, inexpensive

(1) **affordable** housing, (2) **affordable** solution

The automaker has been providing **affordable** car financing options since last year.

ultrasound

n. higher frequency sound than humans can hear

(1) **ultrasound** meter, (2) **ultrasound** scan

An **ultrasound** scan showed that the baby was a girl.

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.

painless

adj. causing little or no physical discomfort; not causing pain or discomfort

synonym: pain-free, effortless, easy

(1) **painless** childbirth, (2) **painless** procedure

Thanks to the new dental anesthesia technique, filling is now **painless**.

immediate

adj. happening or done without delay or occurring shortly after something else

synonym: prompt, quick, instantaneous

(1) take **immediate** effect, (2) the **immediate** past

Both forts were subject to **immediate** attacks.

broad

adj. very wide; general

synonym: wide, expansive, comprehensive

(1) attract **broad** attention, (2) a **broad** mind

He accumulated wealth across a **broad** spectrum of assets.

transform

v. to change in outward structure or looks;

synonym : alter, convert, change

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

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

device

n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

synonym : gadget, instrument, tool

(1) electronic **device**, (2) tracking **device**

I always carry a backup **device** in case my phone runs out of battery.

monitor

v. to observe, check, and track the progress or quality of something over a period of time

synonym : proctor, check, observe

(1) **monitor** an exam, (2) **monitor** the data carefully

They used a special receiver to **monitor** police radio channels.

circulate

v. to move continuously or freely around a place or closed system

synonym : flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

tumor

n. a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way

synonym : neoplasm, mass, lump

(1) **tumor** growth, (2) **tumor** at remote sites

The patient was diagnosed with a **tumor** in her lung.

conversion

n. the act or process of changing something from one thing to another; the state of being changed

synonym: transformation, change, metamorphosis

(1) **conversion** rate, (2) **conversion** therapy

The developer's **conversion** of the old factory into a modern loft apartment complex was a major success.

gentle

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

synonym: mild, delicate, soft

(1) in a **gentle** voice, (2) **gentle** downward slope

Her **gentle** manner relaxed everyone there.

laser

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

synonym: beam, bar, ray

(1) **laser** printer, (2) pulse **laser**

The company holds patents on core components of **laser** jet printers.

pulse

n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

synonym: beat, vibration, throb

(1) a weak **pulse**, (2) **pulse** waves

The cardiac monitor displays the intensity of your **pulse**.

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.

absorb

v. to take in a fluid or other substance gradually

synonym: consume, soak, ingest

(1) **absorb** energy, (2) **absorb** a shock

The sponge **absorbs** water well.

temperature

n. the degree of hotness or coldness of a thing or place

synonym: climate, warmth, degree

(1) extreme **temperatures**, (2) the atmospheric

temperature

Cities around the world set records for highest **temperatures** this summer.

fraction

n. a small part or item forming a piece of a whole; the quotient of two rational numbers

synonym: piece, part, fragment

(1) a **fractional** share of the vote, (2) a numerator in a

fraction

He spent only a **fraction** of his earnings.

volume

n. the amount of space occupied by an object or substance; the magnitude of sound

synonym: capacity, amount, intensity

(1) **volume** of work, (2) high **volume**

This container has a **volume** of 10 cubic meters.

expansion

n. the process of becoming larger or more extensive, or the result of this process

synonym: growth, enlargement, development

(1) industrial **expansion**, (2) **expansion** project

The company is undergoing an **expansion**, opening new locations in several states.

generate

v. to produce or create something; to make offspring by reproduction

synonym: create, yield, produce

(1) **generate** more electricity, (2) **generate** \$100 a month

The economic stimulation program would **generate** a lot of new jobs.

acoustic

adj. relating to sound or the sense of hearing

synonym : aural, hearing, acoustical

(1) **acoustic** properties of a hall, (2) **acoustic** guitar

The ground acts as an **acoustic** barrier against outside sounds.

sensor

n. a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner

synonym : detector

(1) motion **sensor** lighting, (2) an image **sensor**

This automatic door could no longer be opened due to a **sensor** failure.

process

n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

synonym : procedure, method, system

(1) **process** improvement, (2) decision-making **process**

The **process** for applying for a visa can be lengthy and complicated.

resolve

v. to find a suitable answer to the problems or difficulty

synonym : decide, determine, fix

(1) **resolve** a dispute, (2) **resolve** the computer error

This company **resolves** its battery problem completely.

clarity

n. the quality of being coherent and understandable; the quality of transparency or purity

synonym : clearness, translucence, brightness

(1) lack of **clarity**, (2) sake of **clarity**

The publisher will proofread most of this manuscript for

clarity.

surpass

v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

synonym: excel, outdo, outperform

(1) **surpass** imagination, (2) **surpass** \$20 billion in sales

The athlete's record-breaking performance **surpassed** all expectations.

tradition

n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

synonym: custom, practice, ritual

(1) a **tradition** of a culture, (2) against **tradition**

It is a **tradition** in many families to have a big Thanksgiving dinner with all their relatives.

industrial

adj. of or relating to or resulting from industry

synonym: manufacturing, mechanical

(1) beginning of the **industrial** revolution, (2) **industrial** alcohol

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

optics

n. the academic study of vision and light

(1) **optics** technology, (2) fiber **optics**

Einstein's new **optics** theory transformed traditional scientific notions about light.

grandparent

n. a parent of one's father or mother

(1) great- **grandparent**, (2) person of **grandparent** age

She was close to her paternal **grandparents** and often spent summers with them.

stroke

n. a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball

with a club, racket, etc.

synonym : blow

(1) suffer **stroke**, (2) a **stroke** of the putter

This year's extreme heat has resulted in many heat **stroke** cases.

aid

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

synonym : helper, resource, assistance

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

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

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.

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.

devote

v. to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose

synonym : commit, dedicate, apply

(1) **devote** all of my energies, (2) **devote** my own life

He **devoted** himself to studying the history of ancient civilizations.

biomedical

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine

and healthcare

synonym : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

Biomedical engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym : visual, ocular

(1) new **optical** glasses, (2) **optical** fiber

The **optical** illusion made it appear like the building was floating in midair.

generation

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

synonym : cohort, age group, era

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

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

medical

adj. relating to the treatment of illness or injuries; relating to the practice of medicine

synonym : health, disease, treatment

(1) a **medical** opinion, (2) temporary **medical** treatment

The **medical** team worked quickly to save the patient's life.

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**.

function

n. the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a

specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose

synonym : purpose, mapping, job

(1) **function** properly, (2) immune **function**

The brain is an incredibly complex organ that controls the body's **function**.

navigate

v. to plan and direct the way that a ship, plane, etc. will travel, often by using a map

synonym : guide, helm, voyage

(1) **navigate** the Pacific, (2) **navigate** through a document

Our knowledge helps **navigate** our clients successfully.

micro

n. extremely small in scale or scope; one millionth

(1) **micro** bubble, (2) **micro** force sensor

This approach employs both **micro** and macro analysis methods.

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.

virtually

adv. almost completely

synonym : almost, basically, nearly

(1) **virtually** all countries, (2) **virtually** identical

Virtually all the parties signed the contract.

slice

n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting

synonym : piece, portion, slit

(1) a **slice** of the company's revenue, (2) **slice** a tomato thin

The children complained because one **slice** of cake was slightly larger than the other.

carpaccio

n. a dish consisting of thinly sliced raw meat or fish usually served as an appetizer with a dressing or sauce

(1) beef **carpaccio**, (2) mushroom **carpaccio**

The restaurant is known for its delicious **carpaccio** dish made with raw beef.

liver

n. a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

(1) **liver** disease, (2) fatty **liver**

The patient will undergo **liver** transplant surgery tomorrow.

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.

exposure

n. the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret

synonym: vulnerability, disclosure, uncovering

(1) a southern **exposure**, (2) the **exposure** of a fraud

The long **exposure** to the air tarnished the antique tableware.

microsecond

n. one millionth (= 0.000,001) of a second

(1) at a **microsecond** rate, (2) 10 millimeters per **microsecond**

This process all happens within a **microsecond**.

blur

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

synonym: smudge, smear, fuzz

(1) **blur** image, (2) motion **blur**

The camera's focus was off, and the image was a **blur** of colors and shapes.

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.

normally

adv. usually; under normal conditions

synonym: commonly, generally, naturally

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

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

frame

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

synonym: body, skeleton, scaffolding

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

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

internal

adj. of or relating to the inside of something

synonym: interior, inner, domestic

(1) **internal** organs, (2) the **internal** economy

The prime minister canceled visits to other countries to resolve **internal** disputes.

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.

differentiate

v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative

synonym: discern, distinguish, separate

(1) **differentiate** between fact and fiction, (2) **differentiate** a function

The teacher asked the students to **differentiate** between the two similar species of birds.

norm

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

synonym: criterion, mean, standard

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

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

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym: shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

contrast

v. to put in opposition to show or emphasize differences

synonym: differ, vary, counterpoint

(1) **contrast** with a decade ago, (2) **contrast** two things

It's intriguing to compare and **contrast** the two authors.

comparison

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

synonym: equivalence, analogy, contrast

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

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

- 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**.
- vascular** *adj.* of or relating to blood vessels, especially the veins and arteries that carry blood throughout the body
synonym : circulatory, cardiovascular, arterial
(1) **vascular** disease, (2) **vascular** surgery
The doctor detected a blockage in the patient's **vascular** system.
- 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.
- tap** *v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
synonym : knock, exploit, use
(1) **tap** a new market, (2) **tap** keyboard with an index finger
To expand the company, we must **tap** new human resources.
- pucker** *v.* to form small wrinkles or folds in a surface, typically on the skin; to draw together or contract into folds or wrinkles, especially forcibly; (noun) a fold, crease, or gathering of fabric or skin, usually caused by drawing together or tightening of the material
synonym : wrinkle, crease, ruffle
(1) **pucker** my mouth, (2) **pucker** mark
The sour lemon made me **pucker** my lips.

tongue

n. a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a language

synonym : lingo, language, vocabulary

(1) native **tongue**, (2) **tongue** cancer

The **tongue** is boneless, but it is as strong as bones.

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.

fiction

n. the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true

synonym : fantasy, fable, invention

(1) stuff of science **fiction**, (2) non- **fiction** bestseller

Truth is stranger than **fiction**.

locate

v. to specify or determine the exact position of someone or something

synonym : discover, find, place

(1) **locate** a missing pet, (2) **locate** a tumor

The robot can accurately **locate** construction material.

satellite

n. an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

synonym : orbiter, asteroid, moon

(1) a GPS **satellite**, (2) a meteorological **satellite**

Launching an artificial **satellite** contributed to the technological development of our country.

destination

n. the place to which someone or something is going or being sent; the ultimate purpose or goal of a journey or action

synonym : location, endpoint, target

(1) travel **destination**, (2) romantic **destinations**

I am excited to reach my **destination** and explore the new city finally.

similarly

adv. in almost the same way

synonym: also, likewise, ditto

(1) **similarly** situated, (2) have **similarly** great abilities

We argue that wages for temporary workers should **similarly** rise.

microscope

n. an instrument used to see objects or substances that are too small to be seen with the naked eye

synonym: lens, magnifier, eyepiece

(1) **microscope** slide, (2) electron **microscope**

I used an optical **microscope** to observe the small organisms in the water sample.

modern

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

synonym: contemporary, stylish, current

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

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

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**.

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.

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.

coherence

n. the quality of being logical and consistent

synonym : consistency, harmony, unity

(1) **coherence** in a speech, (2) lack **coherence**

The story's **coherence** could have been better when the author included too many unrelated details.

tomography

n. a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound

synonym : imaging, scanning, x-ray

(1) acoustic **tomography**, (2) **tomography** image

The **tomography** scan showed a clear image of the patient's internal organs.

penetration

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

synonym : infiltration, entry, invasion

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

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

clinical

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

synonym : dispassionate, analytic, scientific

(1) **clinical** surgery, (2) participate in **clinical** trials

She received special **clinical** training at the hospital.

adopt

v. to choose to follow something; to legally take a child from another family and care for them as if they were one's own

synonym : accept, assume, take on

(1) **adopt** a child, (2) **adopt** a bill

The national assembly has **adopted** the budget.

magnitude

n. the extent, level, importance, or amount of something

synonym : size, extent, level

(1) a star of the first **magnitude**, (2) the **magnitude** of the disaster

The **magnitude** of the earthquake was measured at 7.8 on the Richter scale.

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.

organ

n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

synonym : function, structure

(1) **organ** bleeding, (2) damage to internal **organs**

These infections have the potential to impact practically every **organ** system.

vivo

adj. alive or existing in a living organism or system; relating to or involving "live" organisms or systems, particularly in scientific research or experimentation

synonym : alive, living, animate

(1) **vivo** imaging, (2) in **vivo** research

The **vivo** colors of the flowers made the garden come alive.

microwave

n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

synonym: oven, waveguide, radar range

(1) **microwave** radiation, (2) **microwave** popcorn

I heated my leftover food in the **microwave** oven, which tasted just as good as freshly cooked.

advancement

n. the development, improvement, or progress of something

synonym: progression, breakthrough, improvement

(1) **advancement** of knowledge, (2) career **advancement**
Competition between countries resulted in fast technological **advancement**.

ultimate

adj. furthest or highest in degree or order

synonym: highest, maximum, foremost

(1) the **ultimate** goal in life, (2) the **ultimate** luxury

Management must take **ultimate** responsibility for the accident.

excitement

n. a feeling of great enthusiasm and eagerness

synonym: thrill, exhilaration, incitement

(1) the **excitement** in the business world, (2) aesthetic **excitement**

The **excitement** of the upcoming concert was palpable among the crowd.

advance

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

synonym: progress, boost, come along

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

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

Session 2: Spelling

1. cultural n__m *n.* something that is regarded as usual, typical, or standard
2. ex_____on project *n.* the process of becoming larger or more extensive, or the result of this process
3. the fr__e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
4. financial a_d *n.* things sent to help countries in need, notably food or money; support
5. com_____on of foods on a caloric basis *n.* the consideration or examination of the similarities between two or more people or things
6. a star of the first ma_____de *n.* the extent, level, importance, or amount of something
7. mi__o force sensor *n.* extremely small in scale or scope; one millionth
8. 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
9. op_____l fiber *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

ANSWERS: 1. norm, 2. expansion, 3. frame, 4. aid, 5. comparison, 6. magnitude, 7. micro, 8. develop, 9. optical

10. travel des_____on *n.* the place to which someone or something is going or being sent; the ultimate purpose or goal of a journey or action
11. ci_____te a rumor *v.* to move continuously or freely around a place or closed system
12. 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
13. first-aid tr_____nt *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
14. provide ac_____te information *adj.* correct and exact in all details
15. di_____se with CT scans *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
16. mo____n poetry *adj.* of or belonging to the present time or recent times
17. tr_____nt by diet *n.* the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
18. mo_____nt of troops *n.* a group of people working together to achieve a shared goal, especially a political, social, or artistic one; the process of moving or being moved, physically or figuratively

ANSWERS: 10. destination, 11. circulate, 12. introduction, 13. treatment, 14. accurate, 15. diagnose, 16. modern, 17. treatment, 18. movement

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| 19. basic br__n function | <i>n.</i> the organ inside the head that is responsible for one's movement, thought, memory, and feeling |
| 20. the ex_____re of a fraud | <i>n.</i> the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret |
| 21. de___t a bad event | <i>v.</i> to find or recognize something, especially something difficult to see, hear, etc. |
| 22. acoustic tom_____hy | <i>n.</i> a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound |
| 23. ab___b a shock | <i>v.</i> to take in a fluid or other substance gradually |
| 24. li_____me ban from the sport | <i>n.</i> the duration of someone's life or something's existence; |
| 25. na_____te through a document | <i>v.</i> to plan and direct the way that a ship, plane, etc. will travel, often by using a map |
| 26. the ul_____te goal in life | <i>adj.</i> furthest or highest in degree or order |
| 27. v__o imaging | <i>adj.</i> alive or existing in a living organism or system; relating to or involving "live" organisms or systems, particularly in scientific research or experimentation |
| 28. op___s technology | <i>n.</i> the academic study of vision and light |

ANSWERS: 19. brain, 20. exposure, 21. detect, 22. tomography, 23. absorb, 24. lifetime, 25. navigate, 26. ultimate, 27. vivo, 28. optics

29. motion se___r lighting *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
30. su_____s imagination *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
31. stuff of science fi_____n *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
32. pu___e waves *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves
33. ge___e downward slope *adj.* having or showing a kindly or tender nature; soft and mild
34. take at his c__t *n.* statements, especially about moral, religious, or political nature that are not sincerely believed by the person making them
35. co_____st with a decade ago *v.* to put in opposition to show or emphasize differences
36. a southern ex_____re *n.* the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret
37. electronic de___e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic

ANSWERS: 29. sensor, 30. surpass, 31. fiction, 32. pulse, 33. gentle, 34. cant, 35. contrast, 36. exposure, 37. device

38. new op____l glasses *adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
39. in____al organs *adj.* of or relating to the inside of something
40. a br__d mind *adj.* very wide; general
41. country-by-country a_d programs *n.* things sent to help countries in need, notably food or money; support
42. tracking de____e *n.* a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
43. fiber op____s *n.* the academic study of vision and light
44. market pen_____on *n.* the act or process of penetrating or entering something, often forcefully or with difficulty; the depth or extent to which something has been entered or understood
45. the im_____te past *adj.* happening or done without delay or occurring shortly after something else
46. an image se____r *n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
47. a weak pu__e *n.* the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

ANSWERS: 38. optical, 39. internal, 40. broad, 41. aid, 42. device, 43. optics, 44. penetration, 45. immediate, 46. sensor, 47. pulse

48. si_____ly situated *adv.* in almost the same way
49. take im_____te effect *adj.* happening or done without delay or occurring shortly after something else
50. not no_____ly drink much *adv.* usually; under normal conditions
51. lack of cl_____y *n.* the quality of being coherent and understandable; the quality of transparency or purity
52. 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
53. pho_____tic tomography *adj.* of or relating to a process that involves the generation of sound waves through the absorption of light energy, particularly in specific medical or scientific imaging techniques
54. the mountain's br____t *n.* either of the two round soft parts of a woman's chest which secrete milk after childbirth
55. ult_____nd scan *n.* higher frequency sound than humans can hear
56. the in_____al economy *adj.* of or relating to the inside of something
57. ab____b energy *v.* to take in a fluid or other substance gradually
58. 10 millimeters per mic_____nd *n.* one millionth (= 0.000,001) of a second
59. in____t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

ANSWERS: 48. similarly, 49. immediate, 50. normally, 51. clarity, 52. structure, 53. photoacoustic, 54. breast, 55. ultrasound, 56. internal, 57. absorb, 58. microsecond, 59. inject

60. re_____e a dispute *v.* to find a suitable answer to the problems or difficulty
61. tu__r growth *n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
62. ac_____ic properties of a hall *adj.* relating to sound or the sense of hearing
63. non-fi_____n bestseller *n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
64. special de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
65. su____r a setback *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant
66. a st____e of the putter *n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.
67. damage to internal or____ns *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
68. mo_____r an exam *v.* to observe, check, and track the progress or quality of something over a period of time
69. pa_____ss childbirth *adj.* causing little or no physical discomfort; not causing pain or discomfort

ANSWERS: 60. resolve, 61. tumor, 62. acoustic, 63. fiction, 64. delivery, 65. suffer, 66. stroke, 67. organ, 68. monitor, 69. painless

70. extreme tem_____res *n.* the degree of hotness or coldness of a thing or place
71. in_____ve breast cancer *adj.* spreading very quickly, and often aggressively, and difficult to stop
72. loss of muscle ti_____e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
73. su_____s \$20 billion in sales *v.* to be or do better than someone or something; to excel or go beyond the limits or standards of something
74. thirty cen_____ers tall *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
75. pu_____r mark *v.* to form small wrinkles or folds in a surface, typically on the skin; to draw together or contract into folds or wrinkles, especially forcibly; (noun) a fold, crease, or gathering of fabric or skin, usually caused by drawing together or tightening of the material
76. sl___e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
77. na_____te the Pacific *v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map
78. ease of com_____on *n.* the consideration or examination of the similarities between two or more people or things

ANSWERS: 70. temperature, 71. invasive, 72. tissue, 73. surpass, 74. centimeter, 75. pucker, 76. slice, 77. navigate, 78. comparison

79. di_____se the problem *v.* to determine or distinguish the nature of a problem or an illness through a careful analysis
80. n__m of action *n.* something that is regarded as usual, typical, or standard
81. importance of early de_____on *n.* the act of discovering or identifying the presence of something
82. la__r printer *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
83. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
84. permanent br__n damage *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
85. lo___e a missing pet *v.* to specify or determine the exact position of someone or something
86. con_____on rate *n.* the act or process of changing something from one thing to another; the state of being changed
87. tr_____rm an education system *v.* to change in outward structure or looks;
88. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
89. participate in cl_____al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

ANSWERS: 79. diagnose, 80. norm, 81. detection, 82. laser, 83. medicinal, 84. brain, 85. locate, 86. conversion, 87. transform, 88. biomedical, 89. clinical

90. b__r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
91. fu_____on properly *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
92. to___e cancer *n.* a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a language
93. aff_____le solution *adj.* not expensive and able to pay
94. a picture fr__e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
95. a numerator in a fr_____on *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
96. the ul_____te luxury *adj.* furthest or highest in degree or order
97. pen_____on testing *n.* the act or process of penetrating or entering something, often forcefully or with difficulty; the depth or extent to which something has been entered or understood

ANSWERS: 90. blur, 91. function, 92. tongue, 93. affordable, 94. frame, 95. fraction, 96. ultimate, 97. penetration

98. con_____on therapy *n.* the act or process of changing something from one thing to another; the state of being changed
99. dif_____ate between fact and fiction *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
100. tr_____rm heat into power *v.* to change in outward structure or looks;
101. va_____ar surgery *adj.* of or relating to blood vessels, especially the veins and arteries that carry blood throughout the body
102. motion b___r *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
103. the gen_____on of electricity *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
104. ad___t a bill *v.* to choose to follow something; to legally take a child from another family and care for them as if they were one's own
105. br___t cancer *n.* either of the two round soft parts of a woman's chest which secrete milk after childbirth
106. cl_____al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
107. pa_____ss procedure *adj.* causing little or no physical discomfort; not causing pain or discomfort

ANSWERS: 98. conversion, 99. differentiate, 100. transform, 101. vascular, 102. blur, 103. generation, 104. adopt, 105. breast, 106. clinical, 107. painless

108. a me_____l opinion *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
109. career adv_____nt *n.* the development, improvement, or progress of something
110. beginning of the industrial rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
111. ac_____te measurements *adj.* correct and exact in all details
112. li__r disease *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins
113. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
114. ci_____te an agenda before the meeting *v.* to move continuously or freely around a place or closed system
115. advertising c__t *n.* statements, especially about moral, religious, or political nature that are not sincerely believed by the person making them
116. digital mam_____hy *n.* the process of using X-rays to examine the breast for the early detection of breast cancer
117. cen_____er measurement *n.* a unit of measurement of length in the metric system, equivalent to one-hundredth of a meter
118. aff_____le housing *adj.* not expensive and able to pay

ANSWERS: 108. medical, 109. advancement, 110. revolution, 111. accurate, 112. liver, 113. advance, 114. circulate, 115. cant, 116. mammography, 117. centimeter, 118. affordable

119. li_____me benefits *n.* the duration of someone's life or something's existence;
120. dif_____ate a function *v.* to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative
121. great-gra_____nt *n.* a parent of one's father or mother
122. vo___e of work *n.* the amount of space occupied by an object or substance; the magnitude of sound
123. vi___l navigation *adj.* relating to seeing or sight
124. in a ge___e voice *adj.* having or showing a kindly or tender nature; soft and mild
125. fatty li___r *n.* a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins
126. the atmospheric tem_____re *n.* the degree of hotness or coldness of a thing or place
127. at a mic_____nd rate *n.* one millionth (= 0.000,001) of a second
128. de___t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
129. person of gra_____nt age *n.* a parent of one's father or mother
130. in v___o research *adj.* alive or existing in a living organism or system; relating to or involving "live" organisms or systems, particularly in scientific research or experimentation

ANSWERS: 119. lifetime, 120. differentiate, 121. grandparent, 122. volume, 123. visual, 124. gentle, 125. liver, 126. temperature, 127. microsecond, 128. detect, 129. grandparent, 130. vivo

131. diagnostic mam_____hy *n.* the process of using X-rays to examine the breast for the early detection of breast cancer
132. a facial ti____e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
133. va_____ar disease *adj.* of or relating to blood vessels, especially the veins and arteries that carry blood throughout the body
134. traditional me_____al *adj.* of or relating to the treatment or cure of disease
135. in____t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
136. field of vi____l arts *adj.* relating to seeing or sight
137. lack co_____ce *n.* the quality of being logical and consistent
138. aesthetic exc_____nt *n.* a feeling of great enthusiasm and eagerness
139. de_____on by the security software *n.* the act of discovering or identifying the presence of something
140. ac_____ic guitar *adj.* relating to sound or the sense of hearing
141. mo_____r the data carefully *v.* to observe, check, and track the progress or quality of something over a period of time
142. against tr_____on *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

ANSWERS: 131. mammography, 132. tissue, 133. vascular, 134. medicinal, 135. inject, 136. visual, 137. coherence, 138. excitement, 139. detection, 140. acoustic, 141. monitor, 142. tradition

143. gen_____on gap *n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
144. the exc_____nt in the business world *n.* a feeling of great enthusiasm and eagerness
145. s__n the face of the man *v.* to examine something hastily, with the eyes or with a machine, to get information
146. a sl__e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
147. complete no_____ly *adv.* usually; under normal conditions
148. pu___r my mouth *v.* to form small wrinkles or folds in a surface, typically on the skin; to draw together or contract into folds or wrinkles, especially forcibly; (noun) a fold, crease, or gathering of fabric or skin, usually caused by drawing together or tightening of the material
149. 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
150. 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

ANSWERS: 143. generation, 144. excitement, 145. scan, 146. slice, 147. normally, 148. pucker, 149. introduction, 150. disease

151. ult_____nd meter *n.* higher frequency sound than humans can hear
152. de___e all of my energies *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
153. the ma_____de of the disaster *n.* the extent, level, importance, or amount of something
154. pho_____tic microscopy *adj.* of or relating to a process that involves the generation of sound waves through the absorption of light energy, particularly in specific medical or scientific imaging techniques
155. 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
156. an easy de_____ry *n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth
157. beginning of the ind_____al revolution *adj.* of or relating to or resulting from industry
158. tom_____hy image *n.* a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound
159. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products

ANSWERS: 151. ultrasound, 152. devote, 153. magnitude, 154. photoacoustic, 155. rev, 156. delivery, 157. industrial, 158. tomography, 159. process

160. tu__r at remote sites *n.* a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
161. 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
162. t_p a new market *v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
163. industrial ex_____on *n.* the process of becoming larger or more extensive, or the result of this process
164. blood ve___ls *n.* a ship or large boat
165. high vo___e *n.* the amount of space occupied by an object or substance; the magnitude of sound
166. 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
167. cutting-edge bio_____al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
168. su___r bad grades *v.* to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

ANSWERS: 160. tumor, 161. develop, 162. tap, 163. expansion, 164. vessel, 165. volume, 166. decide, 167. biomedical, 168. suffer

169. s__n a document into PDF *v.* to examine something hastily, with the eyes or with a machine, to get information
170. sake of cl____y *n.* the quality of being coherent and understandable; the quality of transparency or purity
171. the in_____on of new techniques *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
172. romantic des_____ons *n.* the place to which someone or something is going or being sent; the ultimate purpose or goal of a journey or action
173. common in_____on *n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
174. ge_____te \$100 a month *v.* to produce or create something; to make offspring by reproduction
175. immune fu_____on *n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
176. a ma_____ic tape *adj.* having the properties of attracting or repelling certain materials containing iron or steel

ANSWERS: 169. scan, 170. clarity, 171. invention, 172. destination, 173. invention, 174. generate, 175. function, 176. magnetic

177. pulse la__r *n.* a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification
178. in____ve species *adj.* spreading very quickly, and often aggressively, and difficult to stop
179. ad____e the technology *v.* to go or move forward; to develop in a positive way
180. a fr____onal share of the vote *n.* a small part or item forming a piece of a whole; the quotient of two rational numbers
181. re____e the computer error *v.* to find a suitable answer to the problems or difficulty
182. co____st two things *v.* to put in opposition to show or emphasize differences
183. de___e a question *v.* to make up someone's mind about something; to come to a conclusion or judgment after considering options
184. mic____pe slide *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
185. ma____ic field *adj.* having the properties of attracting or repelling certain materials containing iron or steel
186. have si____ly great abilities *adv.* in almost the same way
187. ge____te more electricity *v.* to produce or create something; to make offspring by reproduction
188. mushroom ca____io *n.* a dish consisting of thinly sliced raw meat or fish usually served as an appetizer with a dressing or sauce

ANSWERS: 177. laser, 178. invasive, 179. advance, 180. fraction, 181. resolve, 182. contrast, 183. decide, 184. microscope, 185. magnetic, 186. similarly, 187. generate, 188. carpaccio

189. t_p keyboard with an index finger *v.* to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
190. electron mic_____pe *n.* an instrument used to see objects or substances that are too small to be seen with the naked eye
191. 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
192. temporary me_____l treatment *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine
193. a political rev_____on *n.* a large-scale attempt to overthrow the government of a country, often using violence or war;
194. ind_____al alcohol *adj.* of or relating to or resulting from industry
195. co_____ce in a speech *n.* the quality of being logical and consistent
196. ad__t a child *v.* to choose to follow something; to legally take a child from another family and care for them as if they were one's own
197. de___e my own life *v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
198. lo___e a tumor *v.* to specify or determine the exact position of someone or something

ANSWERS: 189. tap, 190. microscope, 191. structure, 192. medical, 193. revolution, 194. industrial, 195. coherence, 196. adopt, 197. devote, 198. locate

199. vi_____ly identical *adv.* almost completely
200. naval ve___ls *n.* a ship or large boat
201. 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
202. 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
203. mi_____ve radiation *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
204. adv_____nt of knowledge *n.* the development, improvement, or progress of something
205. suffer st___e *n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.
206. or__n bleeding *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job

ANSWERS: 199. virtually, 200. vessel, 201. movement, 202. rev, 203. microwave, 204. advancement, 205. stroke, 206. organ

207. vi_____ly all countries *adv.* almost completely
208. beef ca_____io *n.* a dish consisting of thinly sliced raw meat or fish usually served as an appetizer with a dressing or sauce
209. decision-making pr_____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
210. 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
211. a tr_____on of a culture *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
212. native to____e *n.* a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a language
213. a meteorological sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
214. a GPS sa_____te *n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.

ANSWERS: 207. virtually, 208. carpaccio, 209. process, 210. disease, 211. tradition, 212. tongue, 213. satellite, 214. satellite

215. pre-mo___n agricultural society *adj.* of or belonging to the present time or recent times
216. mi__o bubble *n.* extremely small in scale or scope; one millionth
217. attract br__d attention *adj.* very wide; general
218. mi_____ve popcorn *n.* a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly

ANSWERS: 215. modern, 216. micro, 217. broad, 218. microwave

Session 3: Fill in the Blanks

1. These infections have the potential to impact practically every _____ system.
n. a part of the body of an animal or plant that has a particular purpose and performs a specific job

2. 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

3. The _____ team worked quickly to save the patient's life.
adj. relating to the treatment of illness or injuries; relating to the practice of medicine

4. The athlete's record-breaking performance _____ all expectations.
v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

5. The security camera has _____ four intruders.
v. to find or recognize something, especially something difficult to see, hear, etc.

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

7. The prime minister canceled visits to other countries to resolve _____ disputes.
adj. of or relating to the inside of something

ANSWERS: 1. organ, 2. introduction, 3. medical, 4. surpassed, 5. detected, 6. scanned, 7. internal

8. The brain is an incredibly complex organ that controls the body's _____.
- n.* the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose
9. Truth is stranger than _____.
- n.* the type of book or story, especially novels, that describes imaginary events and people; anything made up or imagined that is not true
10. The sponge _____ water well.
- v.* to take in a fluid or other substance gradually
11. This automatic door could no longer be opened due to a _____ failure.
- n.* a device that receives a signal or stimulus such as heat, pressure, light, motion, etc. and responds to it in a specific manner
12. The _____ for applying for a visa can be lengthy and complicated.
- n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
13. The developer's _____ of the old factory into a modern loft apartment complex was a major success.
- n.* the act or process of changing something from one thing to another; the state of being changed
14. He spent only a _____ of his earnings.
- n.* a small part or item forming a piece of a whole; the quotient of two rational numbers

ANSWERS: 8. function, 9. fiction, 10. absorbs, 11. sensor, 12. process, 13. conversion, 14. fraction

15. This container has a _____ of 10 cubic meters.
n. the amount of space occupied by an object or substance; the magnitude of sound
16. An _____ scan showed that the baby was a girl.
n. higher frequency sound than humans can hear
17. To expand the company, we must ____ new human resources.
v. to hit someone or something quickly, gently, and often repeatedly; to use existing resources, such as energy, knowledge, etc.
18. The national assembly has _____ the budget.
v. to choose to follow something; to legally take a child from another family and care for them as if they were one's own
19. She received special _____ training at the hospital.
adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
20. Competition between countries resulted in fast technological _____.
n. the development, improvement, or progress of something
21. The doctor detected a blockage in the patient's _____ system.
adj. of or relating to blood vessels, especially the veins and arteries that carry blood throughout the body
22. They used a special receiver to _____ police radio channels.
v. to observe, check, and track the progress or quality of something over a period of time

ANSWERS: 15. volume, 16. ultrasound, 17. tap, 18. adopted, 19. clinical, 20. advancement, 21. vascular, 22. monitor

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

adj. of or relating to or resulting from industry

24. 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

25. Management must take _____ responsibility for the accident.

adj. furthest or highest in degree or order

26. She had lived through two world wars in her _____.

n. the duration of someone's life or something's existence;

27. The _____ of the earthquake was measured at 7.8 on the Richter scale.

n. the extent, level, importance, or amount of something

28. She was close to her paternal _____ and often spent summers with them.

n. a parent of one's father or mother

29. The patient will undergo _____ transplant surgery tomorrow.

n. a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins

30. Cities around the world set records for highest _____ this summer.

n. the degree of hotness or coldness of a thing or place

31. He took her _____ to heart and made the wrong decision.

n. statements, especially about moral, religious, or political nature that are not sincerely believed by the person making them

ANSWERS: 23. Industrial, 24. disease, 25. ultimate, 26. lifetime, 27. magnitude, 28. grandparents, 29. liver, 30. temperatures, 31. cant

32. Our knowledge helps _____ our clients successfully.
- v.* to plan and direct the way that a ship, plane, etc. will travel, often by using a map
33. The _____ illusion made it appear like the building was floating in midair.
- adj.* of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
34. The publisher will proofread most of this manuscript for _____.
- n.* the quality of being coherent and understandable; the quality of transparency or purity
35. I don't _____ take a vacation in the middle of summer.
- adv.* usually; under normal conditions
36. The spy's mission was to gather intelligence on enemy territories through covert _____.
- n.* the act or process of penetrating or entering something, often forcefully or with difficulty; the depth or extent to which something has been entered or understood
37. Scientific knowledge will _____ significantly with the power of AI.
- v.* to go or move forward; to develop in a positive way
38. This year's extreme heat has resulted in many heat _____ cases.
- n.* a medical condition in which poor blood flow to the brain causes cell death; the act of swinging or striking at a ball with a club, racket, etc.
39. Women should get regular _____ screenings as a preventative measure for breast cancer.
- n.* the process of using X-rays to examine the breast for the early detection of breast cancer

ANSWERS: 32. navigate, 33. optical, 34. clarity, 35. normally, 36. penetration, 37. advance, 38. stroke, 39. mammography

40. The restaurant is known for its delicious _____ dish made with raw beef.
- n.* a dish consisting of thinly sliced raw meat or fish usually served as an appetizer with a dressing or sauce
41. 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
42. 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
43. He _____ himself to studying the history of ancient civilizations.
- v.* to commit or dedicate oneself or one's time, effort, or energy to a particular task or purpose
44. He grilled the _____ meat of a chicken.
- n.* either of the two round soft parts of a woman's chest which secrete milk after childbirth
45. The _____ disease can spread quickly and potentially cause a global pandemic.
- adj.* spreading very quickly, and often aggressively, and difficult to stop
46. It's intriguing to compare and _____ the two authors.
- v.* to put in opposition to show or emphasize differences
47. The _____ truck arrived with the packages.
- n.* the act of taking or sending something to a destination; the bringing of a baby during childbirth

ANSWERS: 40. carpaccio, 41. decide, 42. develop, 43. devoted, 44. breast, 45. invasive, 46. contrast, 47. delivery

48. The camera's focus was off, and the image was a _____ of colors and shapes.
n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
49. This smartphone has a collision _____ function.
n. the act of discovering or identifying the presence of something
50. Pakistan's _____ budget was still being reviewed.
n. things sent to help countries in need, notably food or money; support
51. The official transcript contains _____ academic records.
adj. correct and exact in all details
52. I heated my leftover food in the _____ oven, which tasted just as good as freshly cooked.
n. a form of electromagnetic radiation with wavelengths ranging from about one millimeter to one meter and frequencies between 300 MHz (0.3 GHz) and 300 GHz; an electric oven that cooks food by exposing it to high-frequency electromagnetic radiation, which causes the food molecules to vibrate and heat up quickly
53. This company _____ its battery problem completely.
v. to find a suitable answer to the problems or difficulty
54. Einstein's new _____ theory transformed traditional scientific notions about light.
n. the academic study of vision and light
55. 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: 48. blur, 49. detection, 50. aid, 51. accurate, 52. microwave, 53. resolves, 54. optics, 55. medicinal

56. The sour lemon made me _____ my lips.

- v. to form small wrinkles or folds in a surface, typically on the skin; to draw together or contract into folds or wrinkles, especially forcibly; (noun) a fold, crease, or gathering of fabric or skin, usually caused by drawing together or tightening of the material

57. The cardiac monitor displays the intensity of your _____.

- n. the regular heartbeat as it sends blood around the body, especially when it is felt at the wrist or side of the neck; a solid regular vibration of sound, electric current, light, or other waves

58. 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;

59. This process all happens within a _____.

- n. one millionth (= 0.000,001) of a second

60. The _____ of the upcoming concert was palpable among the crowd.

- n. a feeling of great enthusiasm and eagerness

61. He accumulated wealth across a _____ spectrum of assets.

- adj. very wide; general

62. The teacher asked the students to _____ between the two similar species of birds.

- v. to recognize or establish as being distinct; to distinguish between things that are compared; to calculate a derivative

63. The _____ arrived in port the following day.

- n. a ship or large boat

ANSWERS: 56. pucker, 57. pulse, 58. revolution, 59. microsecond, 60. excitement, 61. broad, 62. differentiate, 63. vessel

64. Necessity is the mother of _____.
- n.* the creation of a new device or process resulting from study and experimentation; the act of inventing
65. The _____ force of the earth keeps our planet spinning.
- adj.* having the properties of attracting or repelling certain materials containing iron or steel
66. The story's _____ could have been better when the author included too many unrelated details.
- n.* the quality of being logical and consistent
67. I've included the two designs for a _____.
- n.* the consideration or examination of the similarities between two or more people or things
68. The younger _____ has different values and beliefs than the older one.
- n.* all the people born and living at about the same time, regarded collectively; the production of heat or electricity
69. Launching an artificial _____ contributed to the technological development of our country.
- n.* an electronic device that is sent up into space and moves around the Earth or another planet, used for gathering information or communicating by radio, television, etc.
70. The _____ scan showed a clear image of the patient's internal organs.
- n.* a diagnostic imaging technique used to produce detailed images of structures inside the body, typically by using X-rays, CT scans, or ultrasound

ANSWERS: 64. invention, 65. magnetic, 66. coherence, 67. comparison, 68. generation, 69. satellite, 70. tomography

71. _____ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.
adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
72. Both forts were subject to _____ attacks.
adj. happening or done without delay or occurring shortly after something else
73. Let's try to _____ a bit of enthusiasm into your performance.
v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
74. The children complained because one _____ of cake was slightly larger than the other.
n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
75. The fan _____ the air in the room quickly.
v. to move continuously or freely around a place or closed system
76. I always carry a backup _____ in case my phone runs out of battery.
n. a piece of equipment, tool, or technology that serves a particular purpose or function, often mechanical or electronic
77. The detective looked for fingerprints on the window _____.
n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
78. The ground acts as an _____ barrier against outside sounds.
adj. relating to sound or the sense of hearing

ANSWERS: 71. Biomedical, 72. immediate, 73. inject, 74. slice, 75. circulates, 76. device, 77. frame, 78. acoustic

79. The economic stimulation program would _____ a lot of new jobs.
v. to produce or create something; to make offspring by reproduction
80. The automaker has been providing _____ car financing options since last year.
adj. not expensive and able to pay
81. The primary purpose of the _____ is pain relief.
n. the way in which someone deals with or behaves towards someone or something; medical care provided to a patient for an injury or illness.
82. The patient was diagnosed with a _____ in her lung.
n. a mass of diseased tissue that forms when cells in the body divide and grow in an uncontrolled way
83. The _____ is boneless, but it is as strong as bones.
n. a moveable mass of muscle tissue covered with mucous membrane that is in the mouth; a tongue
84. _____ all the parties signed the contract.
adv. almost completely
85. The long _____ to the air tarnished the antique tableware.
n. the state of being in a particular situation or place where there is no protection from or guarantee to something harmful; the disclosure of something secret
86. The older man _____ from arthritis and finds it difficult to move around.
v. to experience pain, distress, or hardship; to undergo or endure something painful or unpleasant

ANSWERS: 79. generate, 80. affordable, 81. treatment, 82. tumor, 83. tongue, 84. Virtually, 85. exposure, 86. suffers

87. 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

88. This device is used to _____ brain cancer and other tumors.

- v.* to determine or distinguish the nature of a problem or an illness through a careful analysis

89. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.

- n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

90. Their headquarters are in a _____ skyscraper.

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

91. The robot can accurately _____ construction material.

- v.* to specify or determine the exact position of someone or something

92. 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

93. The company is undergoing an _____ opening new locations in several states.

- n.* the process of becoming larger or more extensive, or the result of this process

94. We argue that wages for temporary workers should _____ rise.

- adv.* in almost the same way

ANSWERS: 87. brain, 88. diagnose, 89. tradition, 90. modern, 91. locate, 92. structure, 93. expansion, 94. similarly

95. 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
96. 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
97. The new _____ device can detect tumors that may have been missed in traditional imaging methods.
adj. of or relating to a process that involves the generation of sound waves through the absorption of light energy, particularly in specific medical or scientific imaging techniques
98. 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
99. I am excited to reach my _____ and explore the new city finally.
n. the place to which someone or something is going or being sent; the ultimate purpose or goal of a journey or action
100. This approach employs both _____ and macro analysis methods.
n. extremely small in scale or scope; one millionth
101. I used an optical _____ to observe the small organisms in the water sample.
n. an instrument used to see objects or substances that are too small to be seen with the naked eye

ANSWERS: 95. centimeter, 96. movement, 97. photoacoustic, 98. tissue, 99. destination, 100. micro, 101. microscope

102. The building makes a remarkable _____ impact.

adj. relating to seeing or sight

103. The _____ colors of the flowers made the garden come alive.

adj. alive or existing in a living organism or system; relating to or involving "live" organisms or systems, particularly in scientific research or experimentation

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. My father's death _____ my life completely.

v. to change in outward structure or looks;

106. Her _____ manner relaxed everyone there.

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

107. The systems we have developed has accepted as industry _____.

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

108. The company holds patents on core components of _____ jet printers.

n. a device that emits powerful and narrow light that can be used as a tool to cut metal through a process of optical amplification

109. Thanks to the new dental anesthesia technique, filling is now _____.

adj. causing little or no physical discomfort; not causing pain or discomfort

ANSWERS: 102. visual, 103. vivo, 104. rev, 105. transformed, 106. gentle, 107. norms, 108. laser, 109. painless