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Vocabulary Builder Reference from...

Geraldine Hamilton: *Body parts on a chip* | TED Talk
https://www.ted.com/talks/geraldine_hamilton_body_parts_on_a_chip

All Words

IMPORTANT

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Session 1: Word List

discovery

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

synonym: finding, uncovering, detection

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

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

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.

patient

n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

synonym: client, recipient, subject

(1) **patient** in the hospital, (2) **patient** with weight loss

The doctor carefully examined the **patient's** medical history.

therapy

n. the act of caring for someone through medication, remedial training, etc.

synonym: antidote, medicine, treatment

(1) **therapy** for a patient, (2) field of gene **therapy**

I underwent aversion **therapy** for my addiction to alcohol.

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.

untreated

adj. not given medical care or treatment; not subjected to chemical or physical treatment

synonym: raw, unprocessed, coarse

(1) an **untreated** disease, (2) dispose of **untreated** formalin solution

Heat stroke is the result of **untreated** heat exhaustion.

approve

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

synonym: accept, authorize, agree

(1) **approve** a measures, (2) unanimously **approve** a resolution

My boss wouldn't **approve** of the plan.

multitude

n. a large number of things or people

synonym: mass, assembly, hive

(1) great **multitude**, (2) from a **multitude** of sources

This company is faced with a **multitude** of problems.

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.

predict

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

synonym : forecast, anticipate, foresee

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

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

dispose

v. to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away

synonym : get rid of, arrange, set

(1) **dispose** battleships for a battle, (2) **dispose** of a used product

Generally speaking, the child is innately **disposed** to learn a language.

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**.

rip

v. to tear something or be torn violently or suddenly

synonym : tear, cut, slit

(1) **rip** a notebook apart, (2) **rip** a hole in the roof

During transit, the stuff may **rip** off the luggage tag.

native

adj. connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place

synonym : endemic, domestic, aboriginal

(1) **native** to Africa, (2) **native** language

The vegetation here is almost wholly **native**.

environment

n. the natural world such as air, water, and land in which humans, animals, and plants live

synonym : atmosphere, surroundings, climate

(1) **environment** affairs, (2) chaotic **environment**

Every human is responsible for taking care of the Earth's **environment**.

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.

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.

dynamic

adj. having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

synonym : energetic, active, vital

(1) a **dynamic** market, (2) **dynamic** person

The sprinter has a **dynamic** way of running.

constant

adj. happening repeatedly or all the time

synonym : ceaseless, stable, unchanging

(1) a **constant** wind, (2) a **constant** temperature
Constant dropping wears away the stone.

mechanical

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

synonym: machinelike, automated, automatic

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

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

architect

n. a person whose job is to design plans to be used in making something, such as buildings

synonym: creator, designer, planner

(1) landscape **architect**, (2) **architect** of the peace accord
The building **architect** tried to build the house above the tree.

engineer

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

synonym: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

institute

n. an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something

synonym: academy, university, college

(1) **institute** a lawsuit, (2) research **institutes**

This region has many **institutes** offering higher education.

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.

chip

n. a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

synonym: flake, fragment, chunk

(1) a **chip** of wood, (2) I don't care a **chip**

We can use this campaign as a bargaining **chip** in the negotiations.

incredible

adj. unbelievable; enormous

synonym: unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

lung

n. either of the two organs in the chest that people and some animals use for breathing

(1) **lung** capacity, (2) do **lung** transplantation

He has terminal **lung** cancer.

tremendous

adj. very great in degree or extent or amount or impact; extremely good

synonym: enormous, giant, immense

(1) **tremendous** amount, (2) **tremendous** popularity

We had a **tremendous** time yesterday.

interact

v. to communicate or react with somebody

synonym: cooperate, combine, collaborate

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

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

lab

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

synonym: workshop, laboratory, research chamber

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

The Prime Minister will pay a courtesy visit to the Nobel

laureate's **lab**.

recreate

v. to make something that existed previously happen or appear to exist again

synonym: renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

functional

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

synonym: applicable, practical, usable

(1) field of **functional** medicine, (2) **functional** deafness

The mobile phone was still **functional** even after being dropped.

represent

v. to speak, act, or be present on behalf of another person or group; to form or constitute

synonym: depict, express, describe

(1) **represent** by a diagram, (2) the characters that **represent** numbers

We elected him to **represent** us at the international conference.

biochemical

adj. relating to the chemical processes and substances that occur within living organisms

synonym: molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical**

Biochemical research is essential to understanding the complex chemical reactions in living organisms.

strain

n. a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups

synonym: pressure, tension, breed

(1) **strain** our eyes, (2) a **strain** of bacillus

Dictators of the past often had the erroneous idea of a pure racial **strain**.

technique

n. a particular way or art of doing something that needs skill

synonym: approach, procedure, strategy

(1) a **technique** in martial arts, (2) the **technique** applied to construction

Jockey's superior **technique** brought him victory.

manufacture

v. to make goods in large numbers, usually in a factory using machines

synonym: create, fabricate, assemble

(1) **manufacture** an enzyme, (2) **manufacture** a product

The majority of synthetic vitamins are **manufactured** from oil.

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

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

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

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.

relevance

n. the state or degree of being closely connected or appropriate to the matter at hand

synonym: pertinence, applicability, connection

(1) have no **relevance**, (2) **relevance** category

The **relevance** of this information to the current situation needs to be investigated.

fluid

n. a substance that can flow and is not solid

synonym : liquid, aqua, sap

(1) plenty of **fluids**, (2) **fluid** assets

She was diagnosed with a **fluid** buildup in her lungs.

flexible

adj. able to change or be changed to suit new conditions or situations; able to bend easily

synonym : adaptable, elastic, pliable

(1) **flexible** schedules, (2) a **flexible** wire

You can be more **flexible** and creative in your approach.

membrane

n. a soft, thin layer that forms animal or vegetable tissue

synonym : tissue layer

(1) cell **membranes**, (2) nuclear **membrane**

Loud noises might harm the fragile ear **membrane**.

underneath

adv. under or below something else

synonym : below, under, beneath

(1) **underneath** the surface of the water, (2) **underneath** the laughter

The penny fell **underneath** the piano.

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.

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.

stretch

v. to make or be capable of making anything longer or broader without hurting or breaking

synonym: lengthen, prolong, extend

(1) **stretch** along the coast, (2) **stretch** a story

Some herds have been observed to **stretch** hundreds of kilometers.

contract

n. a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

synonym: agreement, deal, arrangement

(1) employment **contract**, (2) **contract** law

The company signed a **contract** with the supplier for the delivery of goods.

liquid

n. a substance, such as water or oil that flows freely and is neither a solid nor a gas

synonym: fluid

(1) colorless **liquid**, (2) hazardous **liquid**

The sponge takes up the **liquid** well.

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.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

infection

n. a condition in which pathogenic microorganisms or viruses have entered the body

synonym : contagion, disease, transmission

(1) a bacterial **infection**, (2) treat the **infection** with antibiotics

Hospitals must meet various standards to prevent nosocomial **infections**.

bacteria

n. single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

synonym : microorganism, microbe

(1) pathogenic **bacteria**, (2) harmless **bacteria**

Bacteria prevalent in hospitals are often resistant to antibiotics.

defend

v. to protect someone or something from attack, criticism, danger, etc.

synonym : protect, guard, support

(1) **defend** my country, (2) **defend** against a threat

International law allows each nation to **defend** itself when its rights and interests are illegally violated.

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym : intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

inflammation

n. a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury

synonym : rash, hives, irritation

(1) reduce **inflammation** and pain, (2) **inflammation** of the lungs

The medicine soothes the pain of chronic **inflammation**.

engulf

v. to swallow up; to surround and cover completely

synonym: swallow, submerge, inundate

(1) **engulf** the politician, (2) **engulf** in water

The fire quickly **engulfed** the entire building.

label

n. a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category

synonym: tag, mark, identifier

(1) a mailing **label**, (2) **label** a bag with my name

The **label** on the food package lists the ingredients and nutritional information.

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.

stick

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

synonym: pierce, adhere, stay

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

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

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.

wiggle

v. to move or cause to move up and down or from side to side in short and quick movements

synonym : wiggle, jiggle, squirm

(1) **wiggle** her lips, (2) **wiggle** with excitement

Her hips **wiggle** as she walks.

wit

n. the ability to say or write things or ideas in a clever and humorous way

synonym : humor, comedy, funniness

(1) the **wit** of man, (2) full of **wit**

He has the **wit** to keep talking about this topic.

fundamental

adj. forming an essential base or core from which everything else develops or is affected

synonym : basic, essential, entire

(1) **fundamental** education, (2) **fundamental** rights

Human behavior has **fundamental** characteristics.

immune

adj. protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

synonym : resistant, unsusceptible, unaffected

(1) **immune** from criminal prosecution, (2) the cell of the **immune** system

The vaccination does not necessarily make you completely **immune**.

exciting

adj. causing a lot of interest or excitement

synonym : exhilarating, stimulating, thrilling

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

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

enormous

adj. extremely large or great

synonym : huge, giant, gigantic

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

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

airway

n. the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another

synonym : air passage, air duct, skyway

(1) **airway** blockage, (2) **airway** beacon

When performing lifesaving, the first step is to secure the **airway**.

cilium

n. a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris

synonym : eyelash, flagellum

(1) **cilium** movement, (2) primary **cilium**

The microscopic analysis revealed a **cilium's** presence on the single-celled organism's surface.

mucus

n. a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

synonym : secretion, slime, saliva

(1) airway **mucus**, (2) nasal **mucus**

When the body temperature drops, **mucus** secretion fails.

trap

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

synonym : catch, snare, pinfall

(1) set a **trap**, (2) **trap** an animal

The enemy fell right into the **trap**.

particulate

adj. consisting of small particles, especially those that are suspended in a fluid or air

synonym : granular, dusty

(1) **particulate** size, (2) **particulate** pollution

Smoke from forest fires is causing an increase in **particulate** matter in the air.

virus

n. a tiny infectious organic material that causes disease in people, animals, and plants

synonym: bacterium, germ, ailment

(1) spread of the **virus**, (2) a strain of **virus**

An infected person in the hospital will likely pass the **virus** to others.

allergen

n. a substance, such as pollen, dust mites, certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals

synonym: irritant, trigger, substance

(1) airborne **allergen**, (2) seasonal **allergen**

Pollen is a common **allergen** that triggers hay fever in many people.

dam

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

synonym: barricade, barrier, embankment

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

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

cigarette

n. a small cylindrical roll of finely cut tobacco leaves wrapped in paper for smoking

synonym: smoke, cigar, tobacco

(1) a mild **cigarette**, (2) a **cigarette** case

He lit a **cigarette** and leaned against the wall.

prop

n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

synonym: support, buttress, column

(1) emotional **prop**, (2) **prop** stick

We have finally lost our last **prop**.

bronchitis

n. an inflammation of the bronchial tubes, often resulting in cough, chest discomfort, and difficulty breathing, can be

caused by viral or bacterial infections, environmental irritants, or other factors

synonym : chest cold, respiratory infection, bronchial inflammation

(1) viral **bronchitis**, (2) chronic **bronchitis**

I have a terrible case of **bronchitis** and need to see a doctor.

involve

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

synonym : implicate, include, engage

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

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

cyst

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

synonym : abscess, sac, lump

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

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

fibrosis

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

synonym : scarring, hardening, fibrotic disease

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

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

gut

n. the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant

synonym : belly, abdomen, courage

(1) the blind **gut**, (2) **gut** feelings

He told me a **gut-wrenching** truth about my parent's death.

intestinal

adj. relating to the intestines (= the part of the alimentary canal between the stomach and the anus) or bowel; located or occurring within the intestines or bowel

synonym: enteric, gut, digestive

(1) **intestinal** blockage, (2) **intestinal** bacteria

The patient experienced severe abdominal pain due to an **intestinal** infection.

peristaltic

adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

synonym: contractile, rhythmic, pulsating

(1) **peristaltic** contractions, (2) **peristaltic** pump

The intestines' **peristaltic** movement helps propel food through the digestive system.

trickle

v. to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

synonym: dribble, flow, seep

(1) **trickle** down my cheek, (2) **trickle** from his eyes

Water was beginning to **trickle** into the basement after the heavy rain.

intestine

n. a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

synonym: gut, bowel, tract

(1) large **intestine**, (2) **intestine** wall

The small **intestine** is responsible for absorbing most of the nutrients from food.

irritable

adj. easily or frequently agitated, annoyed, or angered; prone to becoming tense or angry in response to minor

stimuli or events

synonym : cranky, grumpy, touchy

(1) **irritable** bowel syndrome, (2) **irritable** mood

Lack of sleep can make me **irritable** and easily annoyed.

bowel

n. the part of the alimentary canal below the stomach; the intestine, especially the lower intestine

synonym : intestine, gut, stomach

(1) **bowel** ailment, (2) whole- **bowel** irrigation

He had surgery to remove a portion of his small **bowel**.

syndrome

n. a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder

synonym : disorder, condition, complication

(1) **syndrome** of dementia, (2) acute **syndrome**

The patient was diagnosed with a rare genetic **syndrome**.

individual

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

synonym : person, being, self

(1) a private **individual**, (2) **individual** freedom

As an **individual**, he had the right to make his own decisions and live his life as he saw fit.

debilitating

adj. weakening or damaging; causing a loss of strength, energy, or success

synonym : weakening, exhausting

(1) **debilitating** virus, (2) **debilitating** effect

His **debilitating** illness made it difficult for him to leave the house.

pipeline

n. a very long large tube that is usually underground and is used for carrying liquid or gas for long distances

synonym : channel, line

(1) a data **pipeline**, (2) **pipeline** facilities

Rebels sabotaged the main **pipeline** supplying oil.

interconnect

v. to connect similar things

synonym: interlink, complect, annex

(1) directly **interconnect** with those systems, (2) human activities **interconnect** with the environment

Our system can now **interconnect** with other databases.

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.

excite

v. to make someone feel suddenly enthusiastic or eager

synonym: thrill, exhilarate, animate

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

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

sufficient

adj. adequate; enough for a particular purpose or requirement

synonym: acceptable, ample, satisfactory

(1) **sufficient** time, (2) self- **sufficient** economy

That candidate does not have **sufficient** means to win an election with certainty.

prediction

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

synonym: forecast, anticipation, foretelling

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

These results muddied the **prediction**.

aerosol

n. a substance enclosed under pressure and released as a fine spray, typically one used for medical purposes or cosmetic application

synonym: spray, mist, fog

(1) **aerosol** container, (2) **aerosol** can

She waited a few seconds after spraying the **aerosol**

insecticide before entering the room.

asthma

n. a chronic respiratory disease characterized by wheezing, coughing, and difficulty breathing

synonym : bronchial, bronchitis, respiratory ailment

(1) **asthma** attack, (2) **asthma** symptoms

He always had to carry an inhaler due to his severe **asthma**.

inhale

v. to breathe in air or a different substance, such as smoke

synonym : breathe in, take in, draw in

(1) **inhale** the smoke, (2) **inhale** the aroma

He **inhaled** deeply, trying to calm down.

doe

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym : rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**

Hunters use a whistle that makes the **doe** sound to lure stags.

toxic

adj. of or relating to or caused by a poison; poisonous

synonym : poisonous, harmful, contaminated

(1) **toxic** molecule, (2) exposure to **toxic** chemicals

This chemical compound is a thousand-fold more **toxic**.

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.

metabolism

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

(1) **metabolism** enzyme, (2) hemoglobin **metabolism**

Better sleep leads to increased **metabolism**.

excrete

v. to discharge waste matter, such as urine or feces, from the body or a cell or gland

synonym : eliminate, expel, secrete

(1) **excrete** a sticky liquid, (2) **excrete** waste products

The body **excretes** excess salt through urine to maintain proper electrolyte balance.

kidney

n. either of a pair of small organs in the body that filter waste products, especially urea, from the blood and excrete them and water in urine

(1) an artificial **kidney**, (2) chronic **kidney** disease

The surgeon removed the healthy **kidney** from the donor.

revolutionize

v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

synonym : transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

pharmaceutical

adj. relating to the production and selling of the medical drugs

synonym : drug, medication, prescription

(1) major **pharmaceutical** companies, (2) commercial **pharmaceutical** products

She gave money to help set up a **pharmaceutical** laboratory.

cosmetic

adj. relating to treatment aimed at restoring or improving a person's appearance and attractiveness; (noun) a substance that you put on your face or body to enhance its appearance and make it more attractive

synonym : adorning, embellishing, ornamental

(1) minor **cosmetic** changes, (2) **cosmetic** fenders on cars
Cosmetic surgery is becoming more common in Asia due to lowering prices.

ingredient

n. one of the things used to make something, especially one of the foods used to make a particular dish

synonym : element, component

(1) secret **ingredients**, (2) compound the **ingredients**

Greed is the primary **ingredient** in the making of criminals.

chemical

adj. relating to or connected with chemistry;

synonym : chemic, synthetic

(1) toxic **chemicals**, (2) a **chemical** compound

The firm has grown into a large **chemical** manufacturing.

exposed

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

synonym : endangered, revealed, disclosed

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

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

basis

n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

synonym : foundation, base, ground

(1) on an equal **basis**, (2) **basis** for calculation

This evidence will form the **basis** for our discussion.

terrorism

n. the use of violence to attain political or religious goals or to compel a government to act

(1) **terrorism** against civilians, (2) anti- **terrorism** bill

Democracy is utterly opposed to any form of **terrorism**.

radiation

n. the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health

synonym : dissemination, emission, irradiation

(1) exposure to **radiation**, (2) electromagnetic **radiation**

He tried every possible treatment, including chemotherapy and **radiation** therapy.

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.

Ebola

n. a highly contagious and often fatal viral disease that causes severe fever and internal bleeding, primarily occurring in remote areas of Central and West Africa

synonym : viral hemorrhagic fever, EVD

(1) **Ebola** epidemic, (2) **Ebola** virus
The **Ebola** outbreak in West Africa caused widespread panic and fear.

participate

v. to take part in something

synonym : take part, partake, enter

(1) **participate** fully in conversation, (2) **participate** in the program

The majority of students actively **participated** in the college's intramural sports program.

medication

n. a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

synonym : cure, drug, medicine

(1) antibiotic **medication**, (2) **medication** by mouth

The pharmacist not only prescribes the **medication** but also guides its proper use.

obtain

v. to get something, especially by making a great effort

synonym : accept, acquire, receive

(1) **obtain** a license, (2) **obtain** a bid

Where can I **obtain** the application form?

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.

at-risk

adj. in danger of being harmed or damaged, or of death or loss

synonym: vulnerable, endangered, precarious

(1) **at-risk** youth, (2) **at-risk** mental state

The school provides extra support for **at-risk** students to help them succeed.

adverse

adj. unfavorable or harmful

synonym: hostile, detrimental, unfavorable

(1) **adverse** circumstances, (2) **adverse** reaction

The **adverse** weather conditions forced us to cancel the outdoor event.

reaction

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

synonym: response, reply, answer

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

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

clinician

n. a practitioner, especially of medicine or psychology, who has direct contact with patients

synonym: psychiatrist, therapist, doctor

(1) experienced **clinician**, (2) from a **clinician's** perspective

Some **clinicians** believe that psychological characteristics alone may cause mental disorders.

converge

v. to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

synonym: congregate, assemble, concentrate

(1) **converge** of a series, (2) **converge** from different points

The two rivers **converge** into one near this area.

discipline

n. the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence

synonym : training, restraint, field

(1) break **discipline**, (2) rigid **discipline**

He quickly learned the military **discipline**.

influence

n. the ability to affect someone's or something's character, growth, or behavior, or the effect itself

synonym : power, leverage, effect

(1) **influence** a child's future, (2) **influence** the daily life

The former emperor had a particular **influence** even after he abdicated.

collaboration

n. the act or situation of working together to create or produce something

synonym : affiliation, alliance, coalition

(1) **collaboration** between companies, (2) **collaboration** platform

The partnership program requires a mutual **collaboration** between both agencies.

large-scale

adj. involving many people or things and involving a lot of change or activity

synonym : big, massive, grand

(1) **large-scale** project, (2) **large-scale** agriculture

The company is planning to make a **large-scale** expansion of its factory.

digital

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

synonym : numerical, computerized, cyber

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

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

instrument

n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

synonym : apparatus, tool, device

(1) musical **instruments**, (2) surgical **instruments**

This electronic **instrument** is required to undergo periodic inspections to ensure precision.

prototype

n. a first or preliminary example of something such as a device or vehicle from which other forms are developed

synonym : mock-up, precursor, model

(1) complete a **prototype** product, (2) early **prototype**

The flying car is presently in the **prototype** stage.

interface

n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

synonym : junction, surface, UI

(1) **interface** between gas and liquid, (2) the user **interface**

Detergent weakens the surface tension at the **interface** of two liquids.

cartridge

n. a container, usually made of paper, containing a charge or charges of explosive or combustible material used in firearms or pyrotechnics

synonym : magazine, shell, bullet

(1) **cartridge** chamber, (2) ink **cartridge**

I need a new printer **cartridge** because my old one has run out of ink.

stem

n. the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or

originate in

synonym: branch, limb, (verb) come from

(1) **stem** from a belief, (2) the **stem** of a matchstick

A rose has thorns on its **stem**.

react

v. to take action in response to something

synonym: respond, reply, oppose

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

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

unpredictable

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

synonym: uncertain, variable, random

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

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

headache

n. pain in the head; someone or something that causes anxiety or trouble

synonym: concern, difficulty, problem

(1) **headache** accompanied by fever, (2) bit of a **headache**

This pill will relieve your **headaches** immediately.

emergency

n. a sudden unforeseen crisis usually involving danger that requires immediate action

synonym: crisis, trouble, difficulty

(1) **emergency** action, (2) acute **emergency**

The president declared a state of **emergency**.

full-blown

adj. fully developed or manifesting in its complete form, often used to describe a difficult situation or condition

synonym: complete, total, absolute

(1) **full-blown** crisis, (2) **full-blown** epidemic

The hurricane hit the coast at **full-blown** force, causing

widespread destruction.

obvious

adj. easy to see, discover or understand

synonym : apparent, conspicuous, evident

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

There are **obvious** differences between the two wine-producing regions.

unfortunately

adv. by bad luck; unluckily

synonym : regrettably, unluckily, alas

(1) **unfortunately** caught in a shower, (2) even more **unfortunately**

The treatments were done but, **unfortunately**, were unsuccessful.

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.

personalize

v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

synonym : customize, individualize, tailor

(1) **personalize** social media profile, (2) **personalize** my workspace

I like to **personalize** my phone case with a picture of my dog.

Session 2: Spelling

- | | | |
|-------------------------------------|------|--|
| 1. di____e battleships for a battle | v. | to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away |
| 2. man_____re a product | v. | to make goods in large numbers, usually in a factory using machines |
| 3. in____e a lot of paperwork | v. | to include or affect someone or something as a necessary part of something else |
| 4. dangerously unp_____ble person | adj. | not capable of being foreseen or calculated; not regular or certain |
| 5. fun_____al deafness | adj. | designed for or capable of a particular activity, purpose, or task; practical or ready for use or service |
| 6. th_____y for a patient | n. | the act of caring for someone through medication, remedial training, etc. |
| 7. a ca_____ry tube | n. | a tube of small internal diameter; any of the minute tubes that carry blood |
| 8. int_____al bacteria | adj. | relating to the intestines (= the part of the alimentary canal between the stomach and the anus) or bowel; located or occurring within the intestines or bowel |
| 9. in_____ct with one another | v. | to communicate or react with somebody |
| 10. as___a symptoms | n. | a chronic respiratory disease characterized by wheezing, coughing, and difficulty breathing |

ANSWERS: 1. dispose, 2. manufacture, 3. involve, 4. unpredictable, 5. functional, 6. therapy, 7. capillary, 8. intestinal, 9. interact, 10. asthma

11. man_____re an enzyme *v.* to make goods in large numbers, usually in a factory using machines
12. field of fun_____al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
13. a scientific di_____ry *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
14. ex_____e waste products *v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland
15. rev_____ize the industry *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
16. de____t smuggling across borders *v.* to find or recognize something, especially something difficult to see, hear, etc.
17. cell and molecular bi_____y *n.* the scientific study of life and the natural processes of living things
18. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
19. en____f the politician *v.* to swallow up; to surround and cover completely
20. unf_____ely caught in a shower *adv.* by bad luck; unluckily
21. emotional p__p *n.* a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something

ANSWERS: 11. manufacture, 12. functional, 13. discovery, 14. excrete, 15. revolutionize, 16. detect, 17. biology, 18. biology, 19. engulf, 20. unfortunately, 21. prop

22. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
23. landscape ar_____ct *n.* a person whose job is to design plans to be used in making something, such as buildings
24. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things
25. reduce inf_____ion and pain *n.* a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury
26. or__n bleeding *n.* a part of the body of an animal or plant that has a particular purpose and performs a specific job
27. ca_____ge chamber *n.* a container, usually made of paper, containing a charge or charges of explosive or combustible material used in firearms or pyrotechnics
28. hazardous li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
29. ful_____wn crisis *adj.* fully developed or manifesting in its complete form, often used to describe a difficult situation or condition
30. fi_____is diagnosis *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure

ANSWERS: 22. lab, 23. architect, 24. nutrient, 25. inflammation, 26. organ, 27. cartridge, 28. liquid, 29. full-blown, 30. fibrosis

31. trading of vi_____l currencies *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
32. ar_____ct of the peace accord *n.* a person whose job is to design plans to be used in making something, such as buildings
33. 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
34. de____d against a threat *v.* to protect someone or something from attack, criticism, danger, etc.
35. exposure to ra_____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
36. the user in_____ce *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
37. na____e language *adj.* connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place
38. pa_____t with weight loss *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

ANSWERS: 31. virtual, 32. architect, 33. liver, 34. defend, 35. radiation, 36. interface, 37. native, 38. patient

39. his conclusion was ob____s *adj.* easy to see, discover or understand
40. ex____ng football player *adj.* causing a lot of interest or excitement
41. em_____cy action *n.* a sudden unforeseen crisis usually involving danger that requires immediate action
42. ink ca_____ge *n.* a container, usually made of paper, containing a charge or charges of explosive or combustible material used in firearms or pyrotechnics
43. in_____ct directly with customers *v.* to communicate or react with somebody
44. co_____ic fenders on cars *adj.* relating to treatment aimed at restoring or improving a person's appearance and attractiveness; (noun) a substance that you put on your face or body to enhance its appearance and make it more attractive
45. rev_____ize the technology *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
46. nu_____nt medicine *n.* any substance that is essential for the maintenance and growth of living things
47. a di_____l watch *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
48. the cell of the im___e system *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

ANSWERS: 39. obvious, 40. exciting, 41. emergency, 42. cartridge, 43. interact, 44. cosmetic, 45. revolutionize, 46. nutrient, 47. digital, 48. immune

49. exposure to to__c chemicals *adj.* of or relating to or caused by a poison; poisonous
50. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
51. musical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
52. ae_____l container *n.* a substance enclosed under pressure and released as a fine spray, typically one used for medical purposes or cosmetic application
53. an ex_____d rock *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
54. ovarian c__t *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
55. col_____ion platform *n.* the act or situation of working together to create or produce something
56. 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
57. airborne al_____en *n.* a substance, such as pollen, dust mites, certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals

ANSWERS: 49. toxic, 50. lab, 51. instrument, 52. aerosol, 53. exposed, 54. cyst, 55. collaboration, 56. liver, 57. allergen

58. a data pi_____ne *n.* a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
59. ex_____d to radiation *adj.* having no protection or shield from something, such as bad weather, attack, or criticism
60. co_____ge of a series *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
61. complete a pr_____pe product *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
62. trigger a re_____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
63. de_____p a skill *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created
64. acute sy_____me *n.* a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder
65. experienced cl_____an *n.* a practitioner, especially of medicine or psychology, who has direct contact with patients
66. the great di_____ry of the century *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 58. pipeline, 59. exposed, 60. converge, 61. prototype, 62. reaction, 63. develop, 64. syndrome, 65. clinician, 66. discovery

67. the ex_____re of a fraud *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
68. in____e the aroma *v.* to breathe in air or a different substance, such as smoke
69. 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
70. deb_____ing effect *adj.* weakening or damaging; causing a loss of strength, energy, or success
71. the influence of mec_____al action *adj.* operated by a machine, relating to or concerned with machinery or tools
72. r_p a notebook apart *v.* to tear something or be torn violently or suddenly
73. rigid dis_____ne *n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
74. d_m-building program *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
75. whole-bo__l irrigation *n.* the part of the alimentary canal below the stomach; the intestine, especially the lower intestine
76. dy_____c person *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

ANSWERS: 67. exposure, 68. inhale, 69. structure, 70. debilitating, 71. mechanical, 72. rip, 73. discipline, 74. dam, 75. bowel, 76. dynamic

77. 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
78. fun_____al rights *adj.* forming an essential base or core from which everything else develops or is affected
79. major pha_____cal companies *adj.* relating to the production and selling of the medical drugs
80. field of gene th_____y *n.* the act of caring for someone through medication, remedial training, etc.
81. participate in cl_____al trials *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
82. seasonal al_____en *n.* a substance, such as pollen, dust mites, certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals
83. commercial pha_____cal products *adj.* relating to the production and selling of the medical drugs
84. re__t against his way of thinking *v.* to take action in response to something
85. bit of a he_____he *n.* pain in the head; someone or something that causes anxiety or trouble
86. as___a attack *n.* a chronic respiratory disease characterized by wheezing, coughing, and difficulty breathing
87. t__p an animal *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

ANSWERS: 77. structure, 78. fundamental, 79. pharmaceutical, 80. therapy, 81. clinical, 82. allergen, 83. pharmaceutical, 84. react, 85. headache, 86. asthma, 87. trap

88. per_____ze my workspace *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
89. on an equal ba__s *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
90. have ge_____c testing *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
91. in_____ce the daily life *n.* the ability to affect someone's or something's character, growth, or behavior, or the effect itself
92. c__t removal *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
93. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
94. co_____ct law *n.* a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law
95. di_____e of a used product *v.* to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away

ANSWERS: 88. personalize, 89. basis, 90. genetic, 91. influence, 92. cyst, 93. environment, 94. contract, 95. dispose

96. cl_____al surgery *adj.* of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
97. pi_____ne facilities *n.* a very long large tube that is usually underground and is used for carrying liquid or gas for long distances
98. g_t feelings *n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant
99. early pr_____pe *n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed
100. to__c molecule *adj.* of or relating to or caused by a poison; poisonous
101. in_____ce between gas and liquid *n.* (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things
102. ob___n a bid *v.* to get something, especially by making a great effort
103. have no re_____ce *n.* the state or degree of being closely connected or appropriate to the matter at hand
104. an un_____ed disease *adj.* not given medical care or treatment; not subjected to chemical or physical treatment

ANSWERS: 96. clinical, 97. pipeline, 98. gut, 99. prototype, 100. toxic, 101. interface, 102. obtain, 103. relevance, 104. untreated

105. 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
106. treat the in_____on with antibiotics *n.* a condition in which pathogenic microorganisms or viruses have entered the body
107. surgical ins_____nts *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
108. in_____te a lawsuit *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
109. complex bio_____al *adj.* relating to the chemical processes and substances that occur within living organisms
110. the characters that re_____nt numbers *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
111. 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

ANSWERS: 105. disease, 106. infection, 107. instrument, 108. institute, 109. biochemical, 110. represent, 111. function

112. ex___e rebellion *v.* to make someone feel suddenly enthusiastic or eager
113. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
114. re_____ce category *n.* the state or degree of being closely connected or appropriate to the matter at hand
115. chronic ki___y disease *n.* either of a pair of small organs in the body that filter waste products, especially urea, from the blood and excrete them and water in urine
116. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
117. im___e from criminal prosecution *adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells
118. ad_____e reaction *adj.* unfavorable or harmful
119. fun_____al education *adj.* forming an essential base or core from which everything else develops or is affected
120. at_____k mental state *adj.* in danger of being harmed or damaged, or of death or loss
121. pathogenic ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease

ANSWERS: 112. excite, 113. engineer, 114. relevance, 115. kidney, 116. complexity, 117. immune, 118. adverse, 119. fundamental, 120. at-risk, 121. bacteria

122. ad____e circumstances *adj.* unfavorable or harmful
123. par_____te in the program *v.* to take part in something
124. wi___e her lips *v.* to move or cause to move up and down or from side to side in short and quick movements
125. deb_____ing virus *adj.* weakening or damaging; causing a loss of strength, energy, or success
126. cell me_____nes *n.* a soft, thin layer that forms animal or vegetable tissue
127. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
128. directly int_____ect with those systems *v.* to connect similar things
129. research in_____tes *n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
130. r_p a hole in the roof *v.* to tear something or be torn violently or suddenly
131. de___t a bad event *v.* to find or recognize something, especially something difficult to see, hear, etc.
132. st___n our eyes *n.* a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups

ANSWERS: 122. adverse, 123. participate, 124. wiggle, 125. debilitating, 126. membrane, 127. environment, 128. interconnect, 129. institute, 130. rip, 131. detect, 132. strain

133. d_m collapsing *n.* a wall constructed over a river to block the flow of water, mainly used to generate energy
134. en____us potential *adj.* extremely large or great
135. a st____n of bacillus *n.* a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups
136. in____e the smoke *v.* to breathe in air or a different substance, such as smoke
137. ful____wn epidemic *adj.* fully developed or manifesting in its complete form, often used to describe a difficult situation or condition
138. ba__s for calculation *n.* the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged
139. ex____e the crowd *v.* to make someone feel suddenly enthusiastic or eager
140. re__t at a high temperature *v.* to take action in response to something
141. a dy____c market *adj.* having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)
142. nasal mu__s *n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

ANSWERS: 133. dam, 134. enormous, 135. strain, 136. inhale, 137. full-blown, 138. basis, 139. excite, 140. react, 141. dynamic, 142. mucus

143. per_____ic pump *adj.* relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract
144. lar_____le agriculture *adj.* involving many people or things and involving a lot of change or activity
145. tr_____e down my cheek *v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
146. vi_____ze data *v.* to form a mental image or concept of something; to make something visible
147. 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
148. he_____he accompanied by fever *n.* pain in the head; someone or something that causes anxiety or trouble
149. en_____f in water *v.* to swallow up; to surround and cover completely
150. large in_____ne *n.* a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

ANSWERS: 143. peristaltic, 144. large-scale, 145. trickle, 146. visualize, 147. function, 148. headache, 149. engulf, 150. intestine

151. ca_____ry action *n.* a tube of small internal diameter; any of the minute tubes that carry blood
152. human activities int_____ect with the environment *v.* to connect similar things
153. re_____te a single country *v.* to make something that existed previously happen or appear to exist again
154. bio_____al reaction *adj.* relating to the chemical processes and substances that occur within living organisms
155. in___e his privacy *v.* to enter aggressively into another's territory by military force for conquest and occupation
156. ci___m movement *n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
157. ind_____al freedom *n.* a single person or thing, as distinct from a group
158. bo__l ailment *n.* the part of the alimentary canal below the stomach; the intestine, especially the lower intestine
159. the blind g_t *n.* the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant
160. full of w_t *n.* the ability to say or write things or ideas in a clever and humorous way

ANSWERS: 151. capillary, 152. interconnect, 153. recreate, 154. biochemical, 155. invade, 156. cilium, 157. individual, 158. bowel, 159. gut, 160. wit

161. at inc_____le speed *adj.* unbelievable; enormous
162. airway mu__s *n.* a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.
163. the s__m of a matchstick *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
164. ae_____l can *n.* a substance enclosed under pressure and released as a fine spray, typically one used for medical purposes or cosmetic application
165. re_____te the feeling of the 1920s *v.* to make something that existed previously happen or appear to exist again
166. 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
167. cognitive com_____ty *n.* the state or quality of being complicated or intricate and difficult to understand
168. en_____us amount *adj.* extremely large or great
169. anti-te_____sm bill *n.* the use of violence to attain political or religious goals or to compel a government to act
170. unanimously ap_____e a resolution *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

ANSWERS: 161. incredible, 162. mucus, 163. stem, 164. aerosol, 165. recreate, 166. disease, 167. complexity, 168. enormous, 169. terrorism, 170. approve

171. hemoglobin met_____sm *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
172. inc_____le amount *adj.* unbelievable; enormous
173. a ch_____al compound *adj.* relating to or connected with chemistry;
174. Eb__a epidemic *n.* a highly contagious and often fatal viral disease that causes severe fever and internal bleeding, primarily occurring in remote areas of Central and West Africa
175. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
176. a ci_____te case *n.* a small cylindrical roll of finely cut tobacco leaves wrapped in paper for smoking
177. la__l a bag with my name *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
178. ai___y beacon *n.* the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another
179. de_____p a strategy *v.* to grow or expand; to improve or refine through a process of progress and refinement, often to achieve greater sophistication or complexity; to elaborate or add detail to something that is in the process of being created

ANSWERS: 171. metabolism, 172. incredible, 173. chemical, 174. Ebola, 175. technique, 176. cigarette, 177. label, 178. airway, 179. develop

180. di____l electronic signature *adj.* processing or storing information as a succession of 1 and 0 to show that a signal is present or missing; relating to the use of computer technology, especially the internet
181. ob____s reasons *adj.* easy to see, discover or understand
182. col____ion between companies *n.* the act or situation of working together to create or produce something
183. antibiotic med____on *n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease
184. from a cl____an's perspective *n.* a practitioner, especially of medicine or psychology, who has direct contact with patients
185. inf____ion of the lungs *n.* a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury
186. s__m from a belief *n.* the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in
187. electromagnetic ra____on *n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
188. employment co____ct *n.* a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

ANSWERS: 180. digital, 181. obvious, 182. collaboration, 183. medication, 184. clinician, 185. inflammation, 186. stem, 187. radiation, 188. contract

189. co_____ge from different points *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
190. ir_____le mood *adj.* easily or frequently agitated, annoyed, or angered; prone to becoming tense or angry in response to minor stimuli or events
191. und_____th the laughter *adv.* under or below something else
192. lar_____le project *adj.* involving many people or things and involving a lot of change or activity
193. ir_____le bowel syndrome *adj.* easily or frequently agitated, annoyed, or angered; prone to becoming tense or angry in response to minor stimuli or events
194. a co_____nt temperature *adj.* happening repeatedly or all the time
195. a strain of vi___s *n.* a tiny infectious organic material that causes disease in people, animals, and plants
196. mi___c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
197. par_____te size *adj.* consisting of small particles, especially those that are suspended in a fluid or air
198. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
199. blood ve___ls *n.* a ship or large boat
200. per_____ze social media profile *v.* to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

ANSWERS: 189. converge, 190. irritable, 191. underneath, 192. large-scale, 193. irritable, 194. constant, 195. virus, 196. mimic, 197. particulate, 198. tremendous,

199. vessel, 200. personalize

201. pulmonary fi____is *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
202. ap____e a measures *v.* to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.
203. a mild ci____te *n.* a small cylindrical roll of finely cut tobacco leaves wrapped in paper for smoking
204. set a t__p *n.* a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping
205. viral bro____is *n.* an inflammation of the bronchial tubes, often resulting in cough, chest discomfort, and difficulty breathing, can be caused by viral or bacterial infections, environmental irritants, or other factors
206. pr____t when she will arrive *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
207. vi____ze flying through space *v.* to form a mental image or concept of something; to make something visible
208. an artificial ki____y *n.* either of a pair of small organs in the body that filter waste products, especially urea, from the blood and excrete them and water in urine

ANSWERS: 201. fibrosis, 202. approve, 203. cigarette, 204. trap, 205. bronchitis, 206. predict, 207. visualize, 208. kidney

209. primary ci___m *n.* a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
210. a mailing la__l *n.* a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
211. self-suf_____nt economy *adj.* adequate; enough for a particular purpose or requirement
212. even more unf_____ely *adv.* by bad luck; unluckily
213. med_____on by mouth *n.* a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease
214. de___d my country *v.* to protect someone or something from attack, criticism, danger, etc.
215. int_____al blockage *adj.* relating to the intestines (= the part of the alimentary canal between the stomach and the anus) or bowel; located or occurring within the intestines or bowel
216. a bacterial in_____on *n.* a condition in which pathogenic microorganisms or viruses have entered the body
217. from a mu_____de of sources *n.* a large number of things or people
218. a co_____nt wind *adj.* happening repeatedly or all the time
219. traditional me_____al *adj.* of or relating to the treatment or cure of disease

ANSWERS: 209. cilium, 210. label, 211. sufficient, 212. unfortunately, 213. medication, 214. defend, 215. intestinal, 216. infection, 217. multitude, 218. constant, 219. medicinal

220. p__p stick *n.* a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
221. fire st__k *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
222. dispose of un_____ed formalin solution *adj.* not given medical care or treatment; not subjected to chemical or physical treatment
223. gloomy pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
224. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
225. make my pre_____ons *n.* the act of predicting the future by reasoning; a statement made about the future
226. in___e other tissues *v.* to enter aggressively into another's territory by military force for conquest and occupation
227. plenty of fl__ds *n.* a substance that can flow and is not solid
228. per_____ic contractions *adj.* relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

ANSWERS: 220. prop, 221. stick, 222. untreated, 223. prediction, 224. doe, 225. prediction, 226. invade, 227. fluid, 228. peristaltic

229. chemical re____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
230. at____k youth *adj.* in danger of being harmed or damaged, or of death or loss
231. re_____nt by a diagram *v.* to speak, act, or be present on behalf of another person or group; to form or constitute
232. in_____ce a child's future *n.* the ability to affect someone's or something's character, growth, or behavior, or the effect itself
233. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
234. in_____e a high degree of risk *v.* to include or affect someone or something as a necessary part of something else
235. ai___y blockage *n.* the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another
236. tr_____e from his eyes *v.* to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
237. chronic bro_____is *n.* an inflammation of the bronchial tubes, often resulting in cough, chest discomfort, and difficulty breathing, can be caused by viral or bacterial infections, environmental irritants, or other factors

ANSWERS: 229. reaction, 230. at-risk, 231. represent, 232. influence, 233. mimic, 234. involve, 235. airway, 236. trickle, 237. bronchitis

238. secret ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
239. ind_____us student *adj.* hardworking, diligent, and persistent in effort
240. the w_t of man *n.* the ability to say or write things or ideas in a clever and humorous way
241. wi___e with excitement *v.* to move or cause to move up and down or from side to side in short and quick movements
242. fl_____le schedules *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
243. st__k a key in a lock *v.* to put something, usually a sharp object, into something; to restrict yourself to doing or using one certain thing and not change; (noun) a thin piece of wood or other material
244. ex_____e a sticky liquid *v.* to discharge waste matter, such as urine or feces, from the body or a cell or gland
245. na___e to Africa *adj.* connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place
246. do l__g transplantation *n.* either of the two organs in the chest that people and some animals use for breathing
247. fl__d assets *n.* a substance that can flow and is not solid

ANSWERS: 238. ingredient, 239. industrious, 240. wit, 241. wiggle, 242. flexible, 243. stick, 244. excrete, 245. native, 246. lung, 247. fluid

248. in_____ne wall *n.* a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
249. a c__p of wood *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
250. great mu_____de *n.* a large number of things or people
251. sy_____me of dementia *n.* a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder
252. nuclear me_____ne *n.* a soft, thin layer that forms animal or vegetable tissue
253. harmless ba_____ia *n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
254. 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
255. I don't care a c__p *n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat
256. par_____te pollution *adj.* consisting of small particles, especially those that are suspended in a fluid or air

ANSWERS: 248. intestine, 249. chip, 250. multitude, 251. syndrome, 252. membrane, 253. bacteria, 254. exposure, 255. chip, 256. particulate

257. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
258. colorless li___d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
259. compound the ing_____nts *n.* one of the things used to make something, especially one of the foods used to make a particular dish
260. minor co_____ic changes *adj.* relating to treatment aimed at restoring or improving a person's appearance and attractiveness; (noun) a substance that you put on your face or body to enhance its appearance and make it more attractive
261. toxic ch_____als *adj.* relating to or connected with chemistry;
262. a fl_____le wire *adj.* able to change or be changed to suit new conditions or situations; able to bend easily
263. a private ind_____al *n.* a single person or thing, as distinct from a group
264. te_____sm against civilians *n.* the use of violence to attain political or religious goals or to compel a government to act
265. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
266. und_____th the surface of the water *adv.* under or below something else
267. spread of the vi___s *n.* a tiny infectious organic material that causes disease in people, animals, and plants

ANSWERS: 257. industrious, 258. liquid, 259. ingredient, 260. cosmetic, 261. chemical, 262. flexible, 263. individual, 264. terrorism, 265. medicinal, 266. underneath, 267. virus

268. break dis_____ne *n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence
269. tre_____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
270. par_____te fully in conversation *v.* to take part in something
271. a ge_____c disorder *adj.* of or relating to genes (= parts of the DNA in cells) or the science of genes
272. unp_____ble outcome *adj.* not capable of being foreseen or calculated; not regular or certain
273. l__g capacity *n.* either of the two organs in the chest that people and some animals use for breathing
274. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
275. ob___n a license *v.* to get something, especially by making a great effort
276. acute em_____cy *n.* a sudden unforeseen crisis usually involving danger that requires immediate action
277. a mec_____al style of writing *adj.* operated by a machine, relating to or concerned with machinery or tools
278. 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

ANSWERS: 268. discipline, 269. tremendous, 270. participate, 271. genetic, 272. unpredictable, 273. lung, 274. engineer, 275. obtain, 276. emergency, 277. mechanical, 278. organ

279. ex____ng news *adj.* causing a lot of interest or excitement
280. a vi____l image *adj.* being actually such in almost every respect; existing in essence or effect though not in actual fact
281. naval ve____ls *n.* a ship or large boat
282. pr____t the future *v.* to state beforehand that something will happen in the future, mainly based on knowledge or experience
283. met____sm enzyme *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
284. Eb__a virus *n.* a highly contagious and often fatal viral disease that causes severe fever and internal bleeding, primarily occurring in remote areas of Central and West Africa
285. st____h a story *v.* to make or be capable of making anything longer or broader without hurting or breaking
286. suf____nt time *adj.* adequate; enough for a particular purpose or requirement
287. st____h along the coast *v.* to make or be capable of making anything longer or broader without hurting or breaking
288. a te____ue in martial arts *n.* a particular way or art of doing something that needs skill
289. pa____t in the hospital *n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic

ANSWERS: 279. exciting, 280. virtual, 281. vessel, 282. predict, 283. metabolism, 284. Ebola, 285. stretch, 286. sufficient, 287. stretch, 288. technique, 289. patient

290. d_e rabbit

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

ANSWERS: 290. doe

Session 3: Fill in the Blanks

1. The fire quickly _____ the entire building.
v. to swallow up; to surround and cover completely

2. This company is faced with a _____ of problems.
n. a large number of things or people

3. The former emperor had a particular _____ even after he abdicated.
n. the ability to affect someone's or something's character, growth, or behavior, or the effect itself

4. The two rivers _____ into one near this area.
v. to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet

5. The majority of students actively _____ in the college's intramural sports program.
v. to take part in something

6. When performing lifesaving, the first step is to secure the _____.
n. the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another

7. We had a _____ time yesterday.
adj. very great in degree or extent or amount or impact; extremely good

8. Loud noises might harm the fragile ear _____.
n. a soft, thin layer that forms animal or vegetable tissue

ANSWERS: 1. engulfed, 2. multitude, 3. influence, 4. converge, 5. participated, 6. airway, 7. tremendous, 8. membrane

9. He had surgery to remove a portion of his small _____.
- n.* the part of the alimentary canal below the stomach; the intestine, especially the lower intestine
10. She gave money to help set up a _____ laboratory.
- adj.* relating to the production and selling of the medical drugs
11. The president declared a state of _____.
- n.* a sudden unforeseen crisis usually involving danger that requires immediate action
12. The _____ properties of this herb have been known to help with various ailments.
- adj.* of or relating to the treatment or cure of disease
13. She _____ the atmosphere of the pre-war age with her stage setting.
- v.* to make something that existed previously happen or appear to exist again
14. He has the ____ to keep talking about this topic.
- n.* the ability to say or write things or ideas in a clever and humorous way
15. 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
16. 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
17. 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

ANSWERS: 9. bowel, 10. pharmaceutical, 11. emergency, 12. medicinal, 13. recreated, 14. wit, 15. liver, 16. nutrients, 17. disease

18. He lit a _____ and leaned against the wall.

n. a small cylindrical roll of finely cut tobacco leaves wrapped in paper for smoking

19. I have no intention to _____ your privacy.

v. to enter aggressively into another's territory by military force for conquest and occupation

20. 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

21. My boss wouldn't _____ of the plan.

v. to think that someone or something is favorable, acceptable, or appropriate; to officially accept a plan, request, etc.

22. The invention of the smartphone _____ the way we communicate with each other.

v. to bring about a complete or radical change in something, often through the introduction of new methods or ideas

23. The _____ of this information to the current situation needs to be investigated.

n. the state or degree of being closely connected or appropriate to the matter at hand

24. Sensors convert physical phenomena into _____ signals.

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

25. Water was beginning to _____ into the basement after the heavy rain.

v. to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

ANSWERS: 18. cigarette, 19. invade, 20. visualize, 21. approve, 22. revolutionized, 23. relevance, 24. digital, 25. trickle

26. International law allows each nation to _____ itself when its rights and interests are illegally violated.
- v.* to protect someone or something from attack, criticism, danger, etc.
27. The investigation _____ several government agencies and is expected to take several months.
- v.* to include or affect someone or something as a necessary part of something else
28. This region has many _____ offering higher education.
- n.* an organization that has a specific purpose, particularly one dealing with science, education, or a particular profession; (verb) to initiate, introduce, or establish something
29. The company is planning to make a _____ expansion of its factory.
- adj.* involving many people or things and involving a lot of change or activity
30. The partnership program requires a mutual _____ between both agencies.
- n.* the act or situation of working together to create or produce something
31. He was known to be very _____ and would often work late into the night.
- adj.* hardworking, diligent, and persistent in effort
32. The doctor carefully examined the _____ medical history.
- n.* a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic
33. 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

ANSWERS: 26. defend, 27. involves, 28. institutes, 29. large-scale, 30. collaboration, 31. industrious, 32. patient's, 33. organ

34. _____ research is essential to understanding the complex chemical reactions in living organisms.

adj. relating to the chemical processes and substances that occur within living organisms

35. He told me a _____ truth about my parent's death.

n. the long tube in the body of a person or animal through which food passes when it leaves the stomach; the mental strength or bravery required to do something difficult or unpleasant

36. 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

37. The _____ arrived in port the following day.

n. a ship or large boat

38. Hospitals must meet various standards to prevent nosocomial _____.

n. a condition in which pathogenic microorganisms or viruses have entered the body

39. The pharmacist not only prescribes the _____ but also guides its proper use.

n. a drug or other form of medicine that treats, prevents, or alleviates the symptoms of the disease

40. The small _____ is responsible for absorbing most of the nutrients from food.

n. a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

ANSWERS: 34. Biochemical, 35. gut-wrenching, 36. virtual, 37. vessel, 38. infections, 39. medication, 40. intestine

41. Better sleep leads to increased _____.

n. the set of chemical reactions in cells or organisms that are necessary for life-sustaining

42. Some _____ believe that psychological characteristics alone may cause mental disorders.

n. a practitioner, especially of medicine or psychology, who has direct contact with patients

43. His _____ illness made it difficult for him to leave the house.

adj. weakening or damaging; causing a loss of strength, energy, or success

44. Human behavior has _____ characteristics.

adj. forming an essential base or core from which everything else develops or is affected

45. When the body temperature drops, _____ secretion fails.

n. a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

46. The body _____ excess salt through urine to maintain proper electrolyte balance.

v. to discharge waste matter, such as urine or feces, from the body or a cell or gland

47. The sprinter has a _____ way of running.

adj. having a lot of energy, ideas, and enthusiasm, and a strong personality; of or relating to dynamics (= the branch of physics and engineering concerned with the forces that cause motions of bodies)

ANSWERS: 41. metabolism, 42. clinicians, 43. debilitating, 44. fundamental, 45. mucus, 46. excretes, 47. dynamic

48. During transit, the stuff may ____ off the luggage tag.

v. to tear something or be torn violently or suddenly

49. Her response revealed _____ idiocy.

adj. unbelievable; enormous

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

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

51. The break in the ____ threatened the valley.

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

52. The _____ will repair my telephone tomorrow morning.

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

53. I underwent aversion _____ for my addiction to alcohol.

n. the act of caring for someone through medication, remedial training, etc.

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

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

55. We elected him to _____ us at the international conference.

v. to speak, act, or be present on behalf of another person or group; to form or constitute

ANSWERS: 48. rip, 49. incredible, 50. mechanical, 51. dam, 52. engineer, 53. therapy, 54. cyst, 55. represent

56. Our system can now _____ with other databases.
v. to connect similar things
57. The majority of synthetic vitamins are _____ from oil.
v. to make goods in large numbers, usually in a factory using machines
58. The findings of the experiment were both _____ and unexpected.
adj. causing a lot of interest or excitement
59. Hunters use a whistle that makes the ____ sound to lure stags.
n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
60. 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
61. The hurricane hit the coast at _____ force, causing widespread destruction.
adj. fully developed or manifesting in its complete form, often used to describe a difficult situation or condition
62. We have finally lost our last _____.
n. a piece of wood, metal, etc., placed beneath or against something to support it or keep it in position; a system, institution, or person that gives help or support to someone or something
63. The _____ weather conditions forced us to cancel the outdoor event.
adj. unfavorable or harmful

ANSWERS: 56. interconnect, 57. manufactured, 58. exciting, 59. doe, 60. biology, 61. full-blown, 62. prop, 63. adverse

64. The mobile phone was still _____ even after being dropped.

adj. designed for or capable of a particular activity, purpose, or task; practical or ready for use or service

65. He has terminal _____ cancer.

n. either of the two organs in the chest that people and some animals use for breathing

66. Smoke from forest fires is causing an increase in _____ matter in the air.

adj. consisting of small particles, especially those that are suspended in a fluid or air

67. The company signed a _____ with the supplier for the delivery of goods.

n. a legally binding agreement between two or more parties, setting out their rights and obligations to each other, typically in writing and enforceable by law

68. He should _____ more with his colleagues.

v. to communicate or react with somebody

69. The vegetation here is almost wholly _____.

adj. connecting with or describing someone's birth country or place of birth, or someone born in a specific country or place

70. You can be more _____ and creative in your approach.

adj. able to change or be changed to suit new conditions or situations; able to bend easily

71. A rose has thorns on its _____.

n. the central part of something from which other parts can develop or grow; the part of a word common to all its inflected variants; (verb) to grow out of, have roots in, or originate in

ANSWERS: 64. functional, 65. lung, 66. particulate, 67. contract, 68. interact, 69. native, 70. flexible, 71. stem

72. I have a terrible case of _____ and need to see a doctor.

- n.* an inflammation of the bronchial tubes, often resulting in cough, chest discomfort, and difficulty breathing, can be caused by viral or bacterial infections, environmental irritants, or other factors

73. Greed is the primary _____ in the making of criminals.

- n.* one of the things used to make something, especially one of the foods used to make a particular dish

74. This chemical compound is a thousand-fold more _____.

- adj.* of or relating to or caused by a poison; poisonous

75. These results muddied the _____.

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

76. We can use this campaign as a bargaining _____ in the negotiations.

- n.* a small fragment of something broken off from the whole; a long and thin piece of potato fried in oil or fat

77. How did he _____ to your idea?

- v.* to take action in response to something

78. He quickly learned the military _____.

- n.* the practice of training people to obey rules or a code of behavior, using and punishments if these are broken; a region of activity, knowledge, or influence

79. She received special _____ training at the hospital.

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

ANSWERS: 72. bronchitis, 73. ingredient, 74. toxic, 75. prediction, 76. chip, 77. react, 78. discipline, 79. clinical

80. The intestines' _____ movement helps propel food through the digestive system.

adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

81. Detergent weakens the surface tension at the _____ of two liquids.

n. (computer science) a program that controls a display for the user and that allows the user to interact with the system; (chemistry) a surface forming a common boundary between two things

82. 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

83. The patient experienced severe abdominal pain due to an _____ infection.

adj. relating to the intestines (= the part of the alimentary canal between the stomach and the anus) or bowel; located or occurring within the intestines or bowel

84. She was diagnosed with a _____ buildup in her lungs.

n. a substance that can flow and is not solid

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

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

86. Democracy is utterly opposed to any form of _____.

n. the use of violence to attain political or religious goals or to compel a government to act

ANSWERS: 80. peristaltic, 81. interface, 82. develop, 83. intestinal, 84. fluid, 85. unpredictable, 86. terrorism

87. He tried every possible treatment, including chemotherapy and _____ therapy.
- n.* the energy that comes from a nuclear reaction in the form of rays, waves, or particles and that can be hazardous to health
88. _____ prevalent in hospitals are often resistant to antibiotics.
- n.* single-celled or noncellular spherical or spiral or rod-shaped organisms that exist in large numbers in the air, water, and soil, and also in living and dead creatures and plants, and are often a cause of disease
89. The firm has grown into a large _____ manufacturing.
- adj.* relating to or connected with chemistry;
90. The patient was diagnosed with a rare genetic _____.
- n.* a group of signs and symptoms that occur together and are characteristic of a particular condition or disorder
91. There are _____ differences between the two wine-producing regions.
- adj.* easy to see, discover or understand
92. Shakespeare's output of poetry was _____.
- adj.* extremely large or great
93. This pill will relieve your _____ immediately.
- n.* pain in the head; someone or something that causes anxiety or trouble
94. Rebels sabotaged the main _____ supplying oil.
- n.* a very long large tube that is usually underground and is used for carrying liquid or gas for long distances

ANSWERS: 87. radiation, 88. Bacteria, 89. chemical, 90. syndrome, 91. obvious, 92. enormous, 93. headaches, 94. pipeline

95. Lack of sleep can make me _____ and easily annoyed.

adj. easily or frequently agitated, annoyed, or angered; prone to becoming tense or angry in response to minor stimuli or events

96. Generally speaking, the child is innately _____ to learn a language.

v. to put things or people in a particular manner or position; to incline someone towards a specific activity or mood; throw or cast away

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

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

98. 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

99. I need a new printer _____ because my old one has run out of ink.

n. a container, usually made of paper, containing a charge or charges of explosive or combustible material used in firearms or pyrotechnics

100. 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

101. An infected person in the hospital will likely pass the _____ to others.

n. a tiny infectious organic material that causes disease in people, animals, and plants

ANSWERS: 95. irritable, 96. disposed, 97. predict, 98. function, 99. cartridge, 100. structure, 101. virus

102. The flying car is presently in the _____ stage.

- n.* a first or preliminary example of something such as a device or vehicle from which other forms are developed

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

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

104. Jockey's superior _____ brought him victory.

- n.* a particular way or art of doing something that needs skill

105. This electronic _____ is required to undergo periodic inspections to ensure precision.

- n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work

106. He always had to carry an inhaler due to his severe _____.

- n.* a chronic respiratory disease characterized by wheezing, coughing, and difficulty breathing

107. The sponge takes up the _____ well.

- n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas

108. There was a chemical _____ of the lime with the groundwater.

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

109. _____ dropping wears away the stone.

- adj.* happening repeatedly or all the time

ANSWERS: 102. prototype, 103. stick, 104. technique, 105. instrument, 106. asthma, 107. liquid, 108. reaction, 109. Constant

110. He _____ deeply, trying to calm down.

v. to breathe in air or a different substance, such as smoke

111. The surgeon removed the healthy _____ from the donor.

n. either of a pair of small organs in the body that filter waste products, especially urea, from the blood and excrete them and water in urine

112. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.

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

113. The news of her promotion _____ her.

v. to make someone feel suddenly enthusiastic or eager

114. _____ surgery is becoming more common in Asia due to lowering prices.

adj. relating to treatment aimed at restoring or improving a person's appearance and attractiveness; (noun) a substance that you put on your face or body to enhance its appearance and make it more attractive

115. Heat stroke is the result of _____ heat exhaustion.

adj. not given medical care or treatment; not subjected to chemical or physical treatment

116. That candidate does not have _____ means to win an election with certainty.

adj. adequate; enough for a particular purpose or requirement

117. 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

ANSWERS: 110. inhaled, 111. kidney, 112. lab, 113. excited, 114. Cosmetic, 115. untreated, 116. sufficient, 117. genetic

118. The building _____ tried to build the house above the tree.

n. a person whose job is to design plans to be used in making something, such as buildings

119. The security camera has _____ four intruders.

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

120. Every human is responsible for taking care of the Earth's _____.

n. the natural world such as air, water, and land in which humans, animals, and plants live

121. 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

122. The _____ outbreak in West Africa caused widespread panic and fear.

n. a highly contagious and often fatal viral disease that causes severe fever and internal bleeding, primarily occurring in remote areas of Central and West Africa

123. She waited a few seconds after spraying the _____ insecticide before entering the room.

n. a substance enclosed under pressure and released as a fine spray, typically one used for medical purposes or cosmetic application

124. The enemy fell right into the _____.

n. a piece of equipment or hole for catching animals or people; (verb) to catch animals or people and prevent them from escaping

125. Her hips _____ as she walks.

v. to move or cause to move up and down or from side to side in short and quick movements

ANSWERS: 118. architect, 119. detected, 120. environment, 121. complexity, 122. Ebola, 123. aerosol, 124. trap, 125. wiggle

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

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

127. The medicine soothes the pain of chronic _____.

- n.* a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury

128. Some herds have been observed to _____ hundreds of kilometers.

- v.* to make or be capable of making anything longer or broader without hurting or breaking

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

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

130. The penny fell _____ the piano.

- adv.* under or below something else

131. The vaccination does not necessarily make you completely _____.

- adj.* protected against a particular disease or toxin due to the presence of specific antibodies or sensitized white blood cells

132. Dictators of the past often had the erroneous idea of a pure racial _____.

- n.* a force or pressure that stretches or pulls something, sometimes causing damage; (biology) a group of organisms within a species that differ in trivial ways from similar groups

ANSWERS: 126. fibrosis, 127. inflammation, 128. stretch, 129. capillary, 130. underneath, 131. immune, 132. strain

133. The treatments were done but, _____ were unsuccessful.
adv. by bad luck; unluckily
134. The _____ on the food package lists the ingredients and nutritional information.
n. a small piece of paper, fabric, or other material attached to an object and giving information about it; (verb) to assign to a category
135. Pollen is a common _____ that triggers hay fever in many people.
n. a substance, such as pollen, dust mites, certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals
136. As an _____ he had the right to make his own decisions and live his life as he saw fit.
n. a single person or thing, as distinct from a group
137. The school provides extra support for _____ students to help them succeed.
adj. in danger of being harmed or damaged, or of death or loss
138. The microscopic analysis revealed a _____ presence on the single-celled organism's surface.
n. a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
139. Her research team made an important _____.
n. the act or process of finding information, a place, or an object, or learning about something that was previously not known
140. I like to _____ my phone case with a picture of my dog.
v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

ANSWERS: 133. unfortunately, 134. label, 135. allergen, 136. individual, 137. at-risk, 138. cilium's, 139. discovery, 140. personalize

141. Where can I _____ the application form?

v. to get something, especially by making a great effort

142. 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

143. Tech companies often employ _____ ducts and other materials in their office interiors.

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

144. This evidence will form the _____ for our discussion.

n. the most important facts, ideas, or events from which something is developed; the way how things are organized or arranged

145. He is very popular at school because he can _____ all the teachers' accents.

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

ANSWERS: 141. obtain, 142. exposure, 143. exposed, 144. basis, 145. mimic