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Vocabulary Builder Reference from...

Taneka Jones: How to 3D print human tissue | TED Talk

https://www.ted.com/talks/taneka_jones_how_to_3d_print_human_tissue

All Words

IMPORTANT

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Session 1: Word List

transplant

v. to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another

synonym : relocate, emigrate, graft

(1) **transplant** a heart, (2) **transplant** my family to America
He tried to **transplant** the seedling into a larger pot.

critic

n. someone who expresses opinions about the quality of books, music, etc.

synonym : pundit, analyst, attacker

(1) art **critic**, (2) severe **critic**

Advocates for legal reform hear less harsh words from their **critics**.

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.

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.

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.

donor

n. a person or an organization that makes a gift of money, food, supplies, etc. to a cause or fund; in medicine, a person who gives blood or tissue or an organ to be used in another person

synonym: contributor, patron, supporter

(1) a transfusion of **donor** blood, (2) an unnamed **donor**

His body rejected the liver of the **donor**.

brand

n. a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

synonym: trademark, label, symbol

(1) create a **brand** logo, (2) the **brand** of the new car

There's a new **brand** of hero in the movies now.

scratch

v. to cut or damage the surface of something or the skin with a sharp or pointed object

synonym: claw, rub, scrape

(1) **scratch** off a name, (2) **scratch** my signature

Don't **scratch** your mosquito bites.

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.

branch

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

synonym: limb, twig, bough

(1) **branch** office, (2) a **branch** pipe

The **branch** of the tree had fallen and blocked the road.

regenerative

adj. tending to regrow or restore lost or injured tissue

synonym: rejuvenating, restorative, healing

(1) **regenerative** medicine, (2) **regenerative** therapy

The **regenerative** properties of stem cells make them a promising area of research.

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.

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.

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.

tissue

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

synonym: structure, texture, anatomy

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

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

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.

tube

n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

synonym: pipe, hose, duct

(1) a capillary **tube**, (2) a glass **tube**

The **tube** train was packed with commuters during rush hour.

responsible

adj. answerable or accountable for something within one's power, control, or management

synonym: accountable, answerable, liable

(1) **responsible** action, (2) **responsible** for a customer service

She's a **responsible** pet owner who ensures her dog gets enough exercise and a healthy diet.

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.

exchange

- v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

synonym: trade, swap, interchange

(1) **exchange** rate, (2) **exchange** a few friendly words
My sister and I frequently **exchange** books, as we love reading.

grasp

- v. to take hold of something or someone quickly and firmly
synonym: grab, clasp, grip

(1) **grasp** his hand, (2) **grasp** a chance

They spent a lot of time trying to **grasp** the current situation.

cousin

- n. the child of your aunt or uncle

synonym: relative

(1) cross- **cousin** marriage, (2) **cousin's** family

I used to play with my younger male **cousins** when I was a little girl.

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.

deposit

- n. a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force

synonym: bank, installment, sedimentation

(1) **deposit** money, (2) **deposit** accumulation

I made a **deposit** at the bank to add money to my account.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym : build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

dimension

n. a measurable extent of a particular kind, such as width, height, or length

synonym : extent, measurement, size

(1) new **dimension**, (2) the crosswise **dimension**

Overall **dimensions** are approximately 400x200mm.

slice

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

synonym : piece, portion, slit

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

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

ceramics

n. objects made from materials such as clay that are hardened by heat, often to create functional or decorative items

synonym : ceramicware, pottery, earthenware

(1) **ceramics** industry, (2) **ceramics** class

She makes beautiful **ceramics** in her studio and sells them at local markets.

bulk

n. the quantity or size of something that is very large; the main part of something

synonym : majority, largeness, amount

(1) buy in **bulk**, (2) **bulk** data transfer

I received a parcel of great **bulk**.

molecule

n. a group of two or more atoms held together by attractive forces known as chemical bonds

synonym : particle, element, atom

(1) small **molecules**, (2) **molecule** behavior

The shape of the DNA **molecule** is a double helix.

hydrogel

n. a gel-like substance made of polymer chains that can absorb and retain large amounts of water; commonly used in medical and cosmetic applications, such as wound dressings and contact lenses

(1) hemostatic **hydrogel**, (2) soft contact **hydrogel**

The medical **hydrogel** was infused with medications to help heal the wound faster.

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.

encourage

v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do

synonym : facilitate, persuade, stimulate

(1) **encourage** a sense of affinity, (2) **encourage** antisocial behavior

They **encouraged** customers with a premium for loyal patronage.

communicate

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

synonym : convey, share, transmit

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

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

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

combine

v. to join or merge to form a single thing or group

synonym : coalesce, cohere, blend

- (1) **combine** chemically with another substance,
(2) **combine** augmented reality

Hydrogen and oxygen **combine** to form water.

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.

meniscus

- n.* a thin, curved layer of liquid, especially the concave surface of a liquid in a container; a cartilage disc within a joint, especially a knee

synonym: cartilage, crescent, curve

- (1) medial **meniscus**, (2) **meniscus** surgery

Basketball players risk damaging their **meniscus** more due to the constant jumping and quick movements.

cartilage

- n.* a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose

synonym: connective tissue, gristle, fibrocartilage

- (1) **cartilage** damage, (2) nasal **cartilage**

The knee joint is supported by **cartilage**, which helps absorb shock and prevent bone damage.

shinbone

- n.* the long bone in the front of the leg, also referred to as the tibia

synonym: tibia, shank bone

- (1) fractured **shinbone**, (2) sore **shinbone**

She fell and bruised her **shinbone** on the edge of the table.

thighbone

- n.* the long bone in the upper leg, also referred to as the femur

synonym : femur, upper leg bone

(1) dislocated **thighbone**, (2) **thighbone** injury

He broke his **thighbone** in a skiing accident.

grind

v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

synonym : mill, crush, grate

(1) **grind** away at my work, (2) **grind** your teeth

She had to **grind** the coffee beans before making a fresh cup.

chondrocyte

n. a specialized type of cell that produces and maintains the extracellular matrix of cartilage, a connective tissue found in many parts of the body

synonym : cartilage cell

(1) mature **chondrocyte**, (2) **chondrocyte** proliferation

The **chondrocyte** cells in the articular cartilage are responsible for maintaining joint health.

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**.

originate

v. to come into existence in a particular place or situation; to start something in a specific place

synonym : begin, arise, create

(1) **originate** from the country, (2) **originate** a political movement

The flight **originates** in Vancouver.

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.

reject

v. to refuse to accept, consider, or use something or someone

synonym : decline, turn down, repudiate

(1) **reject** the proposal, (2) **reject** all imperfect merchandise

The company **rejected** the job candidate's application due to a lack of experience.

extrude

v. to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold

synonym : squeeze, force, press out

(1) **extrude** rubber, (2) **extrude** metal

The artist used a pasta machine to **extrude** clay into intricate shapes.

chamber

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

synonym : association, cabin, legislature

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

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

nozzle

n. a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

synonym : spout, sprayer, tube

(1) **nozzle** attachment, (2) fuel **nozzle**

The car wash **nozzle** sprayed a powerful stream of soapy water onto the vehicle.

attach

v. to fasten, join, or connect one thing to another
synonym: fix, fasten, bind

(1) **attach** firmly, (2) **attach** a file to an e-mail

He does not **attach** importance to these rumors.

emerge

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

synonym: arise, occur, appear

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

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

micron

n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym: micrometer

(1) **micron** measurements, (2) **micron** imaging

The width of a single human hair is around 100 **microns**.

diameter

n. the length of a straight line passing through the center of a circle and connecting two points on the circumference

synonym: diam, width

(1) **diameter** of an oval, (2) a particle **diameter**

Draw a circle five centimeters in **diameter**.

continuous

adj. occurring or existing without a pause or interruption

synonym: ceaseless, regular, repeated

(1) **continuous** improvement, (2) a **continuous** row of warehouses

The heavy snow has been **continuous** since last morning.

filament

n. a thin wire or thread, especially one used to produce light in an electric bulb

synonym: fiber, thread, filament

(1) **filament** lamp, (2) carbon **filament**

The **filament** in the light bulb burned out, and now it's not working.

roughly

adv. approximately but not precisely; with a violent manner
synonym : approximately, more or less, around

(1) **roughly** explain my idea, (2) **roughly** speaking
Five miles is **roughly** similar to eight kilometers.

fingernail

n. the hard, slightly curved part that covers the outer tip of each finger

synonym : claw, paw

(1) **fingernail** biting, (2) fake **fingernail**
The car body scraped off with a **fingernail**.

placement

n. the act or process of putting something in a particular position or location; a temporary position or job in an organization

synonym : positioning, location, arrangement

(1) **placement** test, (2) **placement** agency
The **placement** of the advertisement on the billboard was strategic in attracting a large audience.

strand

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

synonym : fiber, filament, string

(1) a **strand** of fine hair, (2) double- **strand** DNA
I heard several melodic **strands** simultaneously.

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.

stabilize

v. to become or cause to become steady or unlikely to give way

synonym : brace, steady, secure

(1) **stabilize** prices, (2) **stabilize** blood sugar levels
The raising of interest rates **stabilizes** the inflation rate.

stiffen

v. to make or become stiff or rigid; to become inflexible or unyielding in one's attitude or behavior

synonym: harden, solidify, tense

(1) **stiffen** joints, (2) **stiffen** penalties

The cold weather made my muscles **stiffen** up.

immediately

adv. now or without delay

synonym: directly, instantly, promptly

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

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

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym: accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

process

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

synonym: procedure, method, system

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

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

synthetic

adj. made by combining chemical substances as opposed to being naturally occurring

synonym: artificial, manufactured, fabricated

(1) **synthetic** fiber, (2) **synthetic** fertilizer

Synthetic diamonds play an essential role as machine tool blades.

multiply

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

quantity

synonym : boost, amplify, reproduce

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

Multiply a number by itself twice.

relative

adj. considered and evaluated through comparison with something else

synonym : comparative, proximate, congeneric

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

Most countries prohibit sexual activity between certain close **relatives**.

bladder

n. a hollow, flexible sac-like organ in the body that stores and expels fluids, such as urine or bile

synonym : vesica, cyst, sac

(1) **bladder** infection, (2) swollen **bladder**

Drinking too much coffee can irritate the **bladder** and cause frequent urination.

implant

v. to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind

synonym : insert, fix, place

(1) **implant** genes in the animals, (2) **implant** into the uterus

The doctor will **implant** a pacemaker to regulate his heart rate.

promote

v. to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank

synonym : boost, raise, advertise

(1) **promote** a better relationship, (2) **promote** bad behavior

The government should do more to **promote** sustainable agribusiness.

facial

adj. of or relating to a person's face

synonym : forward, front, surface

(1) **facial** nerve, (2) **facial** expressions

Facial profiling is a new form of airport security.

nervous

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

synonym : neural, anxious, uneasy

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

He suffers from **nervous** breakdowns.

regeneration

n. the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit

synonym : renewal, regrowth, restoration

(1) economic **regeneration**, (2) **regeneration** of forests

The **regeneration** of the damaged tissue in the body is a slow process.

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.

miniature

adj. being on a very small scale

synonym : mini, scaled-down, pint-sized

(1) **miniature** camera, (2) **miniature** version

He did complicated pen-and-ink drawings like medieval **miniatures**.

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.

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.

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**.

steep

adj. having a sharp inclination or slope

synonym : sheer, precipitous, abrupt

(1) a **steep** staircase, (2) **steep** discount

The **steep** cliff made it difficult to climb.

destroy

v. to ruin or damage severely or completely; to eradicate or eliminate completely

synonym : demolish, ruin, obliterate

(1) **destroy** the ecosystem, (2) **destroyed** evidence

The building was **destroyed** in the fire and had to be rebuilt.

percentage

n. the number, amount, or rate of something, which is usually the amount per hundred

synonym : rate, ratio, portion

(1) the **percentage** of the gold content, (2) a high **percentage**

What is the **percentage** of the consumption tax in the United States?

formidable

adj. causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration

synonym : daunting, intimidating, fearful

(1) **formidable** challenge, (2) **formidable** competitor
The mountain range was a **formidable** obstacle for the hikers.

oxygen

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

(1) the hydrogen binds the **oxygen**, (2) lack of **oxygen**
The passenger grabbed for the **oxygen** mask.

hollow

adj. having a hole, empty space inside, or indentation on the surface

synonym: cavity, depression, concavity

(1) have **hollow** legs, (2) **hollow** sound

The tree had a **hollow** trunk, which made it easy for animals to take shelter inside.

incorporate

v. to include something as a part of a larger entity

synonym: contain, integrate, amalgamate

(1) **incorporate** the current trends, (2) **incorporate** technology into daily life

We will attempt to **incorporate** some of your suggestions into our future strategy.

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.

advance

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

synonym: progress, boost, come along

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

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

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**.

dizzy

adj. having or causing a whirling sensation and not able to keep balance

synonym: addled, confounded, unsteady

(1) feel **dizzy**, (2) had a **dizzy** spell

Professional skaters can spin fast on the ice without getting **dizzy**.

array

n. a large group or collection of things or people, especially one that is impressive or attractive

synonym: collection, display, batch

(1) a two-dimensional **array**, (2) an **array** of troops

The customer on the Internet has to choose one from a formidable **array** of products.

possibility

n. a chance that something may happen or be true

synonym: chance, prospect, likelihood

(1) **possibility** for growth, (2) **possibility** of a major earthquake

The **possibility** of getting the disease will drastically increase.

embedded

adj. fixed firmly into the surface of something

synonym: ingrained, implanted, inserted

(1) **embedded** systems, (2) LED- **embedded** glass

The **embedded** chip in my credit card allows me to make contactless payments.

electron

n. a tiny particle with the negative electrical charge
synonym : negatron

(1) flow of **electrons**, (2) beam of **electrons**

The outermost **electron** shell determines the chemical properties of an atom.

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.

exceed

v. to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired

synonym : surpass, outdo, excel

(1) **exceed** sales targets, (2) **exceed** the speed limit

The athlete's performance **exceeded** all expectations, breaking a world record.

feat

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

synonym : achievement, accomplishment, exploit

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

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

extend

v. to broaden in scope, range, or area

synonym : prolong, lengthen, advance

(1) **extend** the warranty, (2) **extend** a line

Her visit will **extend** from Monday to Friday.

replace

v. to take the place of something

synonym : substitute, supersede, displace

(1) **replace** one word with another, (2) **replace** a phone

Eventually, the new design will **replace** all older models.

incredible

adj. unbelievable; enormous

synonym : unbelievable, fantastical, inconceivable

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

Her response revealed **incredible** idiocy.

Session 2: Spelling

1. complex bio_____al *adj.* relating to the chemical processes and substances that occur within living organisms
2. 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
3. st_____n penalties *v.* to make or become stiff or rigid; to become inflexible or unyielding in one's attitude or behavior
4. ca_____ge damage *n.* a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose
5. toxic ch_____als *adj.* relating to or connected with chemistry;
6. flow of el_____ons *n.* a tiny particle with the negative electrical charge
7. ex_____e metal *v.* to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold
8. no_____e attachment *n.* a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun
9. ex_____ge rate *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

ANSWERS: 1. biochemical, 2. structure, 3. stiffen, 4. cartilage, 5. chemical, 6.

electron, 7. extrude, 8. nozzle, 9. exchange

10. the crosswise di_____on *n.* a measurable extent of a particular kind, such as width, height, or length
11. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
12. an ar__y of troops *n.* a large group or collection of things or people, especially one that is impressive or attractive
13. l__g capacity *n.* either of the two organs in the chest that people and some animals use for breathing
14. ad_____e a cooperative relationship *v.* to go or move forward; to develop in a positive way
15. cho_____te proliferation *n.* a specialized type of cell that produces and maintains the extracellular matrix of cartilage, a connective tissue found in many parts of the body
16. de_____t money *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
17. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
18. re_____ve factors *adj.* considered and evaluated through comparison with something else
19. new di_____on *n.* a measurable extent of a particular kind, such as width, height, or length

ANSWERS: 10. dimension, 11. environment, 12. array, 13. lung, 14. advance, 15. chondrocyte, 16. deposit, 17. addition, 18. relative, 19. dimension

20. re___t all imperfect merchandise *v.* to refuse to accept, consider, or use something or someone
21. re_____e a phone *v.* to take the place of something
22. fa___l nerve *adj.* of or relating to a person's face
23. tra_____nt my family to America *v.* to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another
24. re___t the proposal *v.* to refuse to accept, consider, or use something or someone
25. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
26. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
27. ex_____ge a few friendly words *v.* to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded
28. th_____ne injury *n.* the long bone in the upper leg, also referred to as the femur
29. development of the ne_____s system *adj.* worried and anxious about something; relating to the nerves

ANSWERS: 20. reject, 21. replace, 22. facial, 23. transplant, 24. reject, 25. technique, 26. construct, 27. exchange, 28. thighbone, 29. nervous

30. nu____nt medicine *n.* any substance that is essential for the maintenance and growth of living things
31. ho___w sound *adj.* having a hole, empty space inside, or indentation on the surface
32. chemical ad____on *n.* the act or process of adding something to something else; the process of adding numbers
33. the br__d of the new car *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
34. small mo____les *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
35. hazardous li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
36. im____t into the uterus *v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind
37. feel di__y *adj.* having or causing a whirling sensation and not able to keep balance
38. co____e chemically with another substance *v.* to join or merge to form a single thing or group
39. sc____h off a name *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
40. me____al chemistry *adj.* of or relating to the treatment or cure of disease

ANSWERS: 30. nutrient, 31. hollow, 32. addition, 33. brand, 34. molecule, 35. liquid, 36. implant, 37. dizzy, 38. combine, 39. scratch, 40. medicinal

41. at___h a file to an e-mail *v.* to fasten, join, or connect one thing to another
42. mo_____le behavior *n.* a group of two or more atoms held together by attractive forces known as chemical bonds
43. gr__d your teeth *v.* to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
44. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
45. di_____er of an oval *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
46. get ne_____s *adj.* worried and anxious about something; relating to the nerves
47. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
48. for_____le challenge *adj.* causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration
49. a con_____us row of warehouses *adj.* occurring or existing without a pause or interruption
50. unf_____ely caught in a shower *adv.* by bad luck; unluckily
51. im_____t genes in the animals *v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind

ANSWERS: 41. attach, 42. molecule, 43. grind, 44. lab, 45. diameter, 46. nervous, 47. engineer, 48. formidable, 49. continuous, 50. unfortunately, 51. implant

52. com_____te his anxieties to the psychiatrist
v. to share or exchange information with others by speaking, writing, moving your body, or using other signals
53. f__t accomplishment
n. a notable or impressive achievement, especially one that requires great skill or bravery
54. severe cr___c
n. someone who expresses opinions about the quality of books, music, etc.
55. ex___d sales targets
v. to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired
56. inc_____te the current trends
v. to include something as a part of a larger entity
57. double-st___d DNA
n. a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
58. me_____us surgery
n. a thin, curved layer of liquid, especially the concave surface of a liquid in a container; a cartilage disc within a joint, especially a knee
59. evolutionary bi____y
n. the scientific study of life and the natural processes of living things
60. cell and molecular bi____y
n. the scientific study of life and the natural processes of living things
61. a transfusion of do__r blood
n. a person or an organization that makes a gift of money, food, supplies, etc. to a cause or fund; in medicine, a person who gives blood or tissue or an organ to be used in another person

ANSWERS: 52. communicate, 53. feat, 54. critic, 55. exceed, 56. incorporate, 57. strand, 58. meniscus, 59. biology, 60. biology, 61. donor

73. mu____ly about hundredfold
v. to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
74. ro____y explain my idea
adv. approximately but not precisely; with a violent manner
75. bio____al reaction
adj. relating to the chemical processes and substances that occur within living organisms
76. pl____nt agency
n. the act or process of putting something in a particular position or location; a temporary position or job in an organization
77. the hydrogen binds the ox____n
n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
78. re____e one word with another
v. to take the place of something
79. fa____l expressions
adj. of or relating to a person's face
80. en____ge antisocial behavior
v. to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
81. gr__d away at my work
v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time
82. sore sh____ne
n. the long bone in the front of the leg, also referred to as the tibia

ANSWERS: 73. multiply, 74. roughly, 75. biochemical, 76. placement, 77. oxygen, 78. replace, 79. facial, 80. encourage, 81. grind, 82. shinbone

83. intellectual f__t *n.* a notable or impressive achievement, especially one that requires great skill or bravery
84. mu_____ly 5 and 6 *v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
85. bl_____r infection *n.* a hollow, flexible sac-like organ in the body that stores and expels fluids, such as urine or bile
86. pos_____ty for growth *n.* a chance that something may happen or be true
87. the per_____ge of the gold content *n.* the number, amount, or rate of something, which is usually the amount per hundred
88. em_____ed systems *adj.* fixed firmly into the surface of something
89. had a di__y spell *adj.* having or causing a whirling sensation and not able to keep balance
90. com_____ty theory *n.* the state or quality of being complicated or intricate and difficult to understand
91. 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
92. mi_____n measurements *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

ANSWERS: 83. feat, 84. multiply, 85. bladder, 86. possibility, 87. percentage, 88. embedded, 89. dizzy, 90. complexity, 91. patient, 92. micron

93. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
94. a st____d of fine hair *n.* a very thin natural or synthetic thread, wire, hair, etc.; (verb) to leave or drive a vessel, fish, etc., aground or ashore
95. lack of ox____n *n.* the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live
96. for_____le competitor *adj.* causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration
97. at____h firmly *v.* to fasten, join, or connect one thing to another
98. at inc_____le speed *adj.* unbelievable; enormous
99. de_____y the ecosystem *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
100. res_____le action *adj.* answerable or accountable for something within one's power, control, or management
101. or_____te a political movement *v.* to come into existence in a particular place or situation; to start something in a specific place
102. sl__e a tomato thin *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
103. 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

ANSWERS: 93. technique, 94. strand, 95. oxygen, 96. formidable, 97. attach, 98. incredible, 99. destroy, 100. responsible, 101. originate, 102. slice, 103. liver

104. soft contact hy_____el *n.* a gel-like substance made of polymer chains that can absorb and retain large amounts of water; commonly used in medical and cosmetic applications, such as wound dressings and contact lenses
105. com_____te well with my advisor *v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
106. en_____ge a sense of affinity *v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
107. reg_____ion of forests *n.* the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit
108. br____h office *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
109. gr__p a chance *v.* to take hold of something or someone quickly and firmly
110. sc_____h my signature *v.* to cut or damage the surface of something or the skin with a sharp or pointed object
111. mature cho_____te *n.* a specialized type of cell that produces and maintains the extracellular matrix of cartilage, a connective tissue found in many parts of the body

ANSWERS: 104. hydrogel, 105. communicate, 106. encourage, 107. regeneration, 108. branch, 109. grasp, 110. scratch, 111. chondrocyte

112. economic reg_____ion *n.* the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit
113. 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
114. 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
115. a sl__e of the company's revenue *n.* a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
116. an unnamed do__r *n.* a person or an organization that makes a gift of money, food, supplies, etc. to a cause or fund; in medicine, a person who gives blood or tissue or an organ to be used in another person
117. 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
118. the lower ch_____r *n.* a large room used for a formal, public, or particular purpose; one of the parts of a parliament
119. pl_____nt test *n.* the act or process of putting something in a particular position or location; a temporary position or job in an organization

ANSWERS: 112. regeneration, 113. kidney, 114. kidney, 115. slice, 116. donor, 117. liver, 118. chamber, 119. placement

120. carbon fi_____nt	<i>n.</i>	a thin wire or thread, especially one used to produce light in an electric bulb
121. nasal ca_____ge	<i>n.</i>	a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose
122. fuel no____e	<i>n.</i>	a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun
123. em____e as a butterfly	<i>v.</i>	to move out of or away from something and become visible
124. cognitive com_____ty	<i>n.</i>	the state or quality of being complicated or intricate and difficult to understand
125. b__k data transfer	<i>n.</i>	the quantity or size of something that is very large; the main part of something
126. con_____us improvement	<i>adj.</i>	occurring or existing without a pause or interruption
127. pr_____e a better relationship	<i>v.</i>	to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
128. st_____ze blood sugar levels	<i>v.</i>	to become or cause to become steady or unlikely to give way
129. st_____ze prices	<i>v.</i>	to become or cause to become steady or unlikely to give way
130. art cr____c	<i>n.</i>	someone who expresses opinions about the quality of books, music, etc.
131. ex_____e rubber	<i>v.</i>	to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold

ANSWERS: 120. filament, 121. cartilage, 122. nozzle, 123. emerge, 124. complexity, 125. bulk, 126. continuous, 127. promote, 128. stabilize, 129. stabilize, 130. critic, 131. extrude

132. reg_____ive therapy *adj.* tending to regrow or restore lost or injured tissue
133. buy in b__k *n.* the quantity or size of something that is very large; the main part of something
134. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
135. ad_____e the technology *v.* to go or move forward; to develop in a positive way
136. fractured sh_____ne *n.* the long bone in the front of the leg, also referred to as the tibia
137. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
138. inc_____le amount *adj.* unbelievable; enormous
139. field of fun_____al medicine *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
140. 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
141. inc_____te technology into daily life *v.* to include something as a part of a larger entity

ANSWERS: 132. regenerative, 133. bulk, 134. engineer, 135. advance, 136. shinbone, 137. construct, 138. incredible, 139. functional, 140. function, 141. incorporate

142. mi_____re version *adj.* being on a very small scale
143. naval ve___ls *n.* a ship or large boat
144. a nu_____nt for hair *n.* any substance that is essential for the maintenance and growth of living things
145. a facial ti___e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
146. pr_____s improvement *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
147. a br___h pipe *n.* a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization
148. fun_____al deafness *adj.* designed for or capable of a particular activity, purpose, or task; practical or ready for use or service
149. sy_____ic fiber *adj.* made by combining chemical substances as opposed to being naturally occurring
150. a glass t___e *n.* a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape

ANSWERS: 142. miniature, 143. vessel, 144. nutrient, 145. tissue, 146. process, 147. branch, 148. functional, 149. synthetic, 150. tube

151. write him an answer imm_____ly *adv.* now or without delay
152. dislocated th_____ne *n.* the long bone in the upper leg, also referred to as the femur
153. traditional me_____al *adj.* of or relating to the treatment or cure of disease
154. blood ve____ls *n.* a ship or large boat
155. a particle di_____er *n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
156. 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
157. co____n's family *n.* the child of your aunt or uncle
158. have ho____w legs *adj.* having a hole, empty space inside, or indentation on the surface
159. 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
160. fi_____nt lamp *n.* a thin wire or thread, especially one used to produce light in an electric bulb
161. sy_____ic fertilizer *adj.* made by combining chemical substances as opposed to being naturally occurring

ANSWERS: 151. immediately, 152. thighbone, 153. medicinal, 154. vessel, 155. diameter, 156. develop, 157. cousin, 158. hollow, 159. develop, 160. filament, 161. synthetic

162. tre_____us amount *adj.* very great in degree or extent or amount or impact; extremely good
163. mi___n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
164. imm_____ly recall a product *adv.* now or without delay
165. ce_____cs class *n.* objects made from materials such as clay that are hardened by heat, often to create functional or decorative items
166. st__p discount *adj.* having a sharp inclination or slope
167. or_____te from the country *v.* to come into existence in a particular place or situation; to start something in a specific place
168. mi_____re camera *adj.* being on a very small scale
169. gr__p his hand *v.* to take hold of something or someone quickly and firmly
170. medial me_____us *n.* a thin, curved layer of liquid, especially the concave surface of a liquid in a container; a cartilage disc within a joint, especially a knee
171. pos_____ty of a major earthquake *n.* a chance that something may happen or be true
172. pr_____e bad behavior *v.* to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
173. reg_____ive medicine *adj.* tending to regrow or restore lost or injured tissue

ANSWERS: 162. tremendous, 163. micron, 164. immediately, 165. ceramics, 166. steep, 167. originate, 168. miniature, 169. grasp, 170. meniscus, 171. possibility, 172. promote, 173. regenerative

174. decision-making pr____s *n.* a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
175. loss of muscle ti____e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
176. ro____y speaking *adv.* approximately but not precisely; with a violent manner
177. 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
178. res____le for a customer service *adj.* answerable or accountable for something within one's power, control, or management
179. colorless li____d *n.* a substance, such as water or oil that flows freely and is neither a solid nor a gas
180. co____e augmented reality *v.* to join or merge to form a single thing or group
181. hemostatic hy____el *n.* a gel-like substance made of polymer chains that can absorb and retain large amounts of water; commonly used in medical and cosmetic applications, such as wound dressings and contact lenses

ANSWERS: 174. process, 175. tissue, 176. roughly, 177. structure, 178. responsible, 179. liquid, 180. combine, 181. hydrogel

182. 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
183. de____yed evidence *v.* to ruin or damage severely or completely; to eradicate or eliminate completely
184. a high per____ge *n.* the number, amount, or rate of something, which is usually the amount per hundred
185. a remote re____ve *adj.* considered and evaluated through comparison with something else
186. cross-co____n marriage *n.* the child of your aunt or uncle
187. fin____il biting *n.* the hard, slightly curved part that covers the outer tip of each finger
188. em____e from poverty *v.* to move out of or away from something and become visible
189. beam of el____ons *n.* a tiny particle with the negative electrical charge
190. tre____us popularity *adj.* very great in degree or extent or amount or impact; extremely good
191. tra____nt a heart *v.* to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another

ANSWERS: 182. function, 183. destroy, 184. percentage, 185. relative, 186. cousin, 187. fingernail, 188. emerge, 189. electron, 190. tremendous, 191. transplant

192. fake fin_____il *n.* the hard, slightly curved part that covers the outer tip of each finger
193. create a br__d logo *n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning
194. a st__p staircase *adj.* having a sharp inclination or slope
195. LED-em_____ed glass *adj.* fixed firmly into the surface of something
196. ex___d the warranty *v.* to broaden in scope, range, or area
197. ex___d the speed limit *v.* to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired
198. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
199. swollen bl_____r *n.* a hollow, flexible sac-like organ in the body that stores and expels fluids, such as urine or bile
200. de_____t accumulation *n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force

ANSWERS: 192. fingernail, 193. brand, 194. steep, 195. embedded, 196. extend, 197. exceed, 198. lab, 199. bladder, 200. deposit

Session 3: Fill in the Blanks

1. The _____ of the advertisement on the billboard was strategic in attracting a large audience.
n. the act or process of putting something in a particular position or location; a temporary position or job in an organization
2. The researcher separated the nervous _____ for microscopic examinations.
n. an ensemble of similar cells of the animal or plant that together carry out a specific function
3. In _____ private corporations provide healthcare services.
n. the act or process of adding something to something else; the process of adding numbers
4. 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
5. I received a parcel of great _____.
n. the quantity or size of something that is very large; the main part of something
6. 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
7. The firm has grown into a large _____ manufacturing.
adj. relating to or connected with chemistry;
8. Basketball players risk damaging their _____ more due to the constant jumping and quick movements.
n. a thin, curved layer of liquid, especially the concave surface of a liquid in a container; a cartilage disc within a joint, especially a knee

ANSWERS: 1. placement, 2. tissue, 3. addition, 4. nutrients, 5. bulk, 6. environment, 7. chemical, 8. meniscus

9. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
10. The government should do more to _____ sustainable agribusiness.
v. to encourage or persuade people to like, buy, use, do, or support something; to raise someone to a higher position or rank
11. Overall _____ are approximately 400x200mm.
n. a measurable extent of a particular kind, such as width, height, or length
12. The cold weather made my muscles _____ up.
v. to make or become stiff or rigid; to become inflexible or unyielding in one's attitude or behavior
13. 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
14. The children complained because one _____ of cake was slightly larger than the other.
n. a flat, often thin, piece of bread, meat, cheese, etc., that has been cut from a larger piece; a wound made by cutting
15. A suspension order from the court is effective _____.
adv. now or without delay
16. 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

ANSWERS: 9. engineer, 10. promote, 11. dimensions, 12. stiffen, 13. functional, 14. slice, 15. immediately, 16. liquid

17. The car wash _____ sprayed a powerful stream of soapy water onto the vehicle.

n. a tube or spout through which a liquid or gas is discharged, particularly one attached to a hose, pump, or spray gun

18. The _____ in the light bulb burned out, and now it's not working.

n. a thin wire or thread, especially one used to produce light in an electric bulb

19. 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

20. The _____ of the tree had fallen and blocked the road.

n. a division of a tree or woody shrub that grows out from the trunk or a main stem; a division of some larger or more complex organization

21. 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

22. My sister and I frequently _____ books, as we love reading.

v. to give something and receive something else in return, often with the implication that the items being traded are of equal or comparable value; (noun) the act of giving or taking something in return for something else; a place or system where goods or services can be bought, sold, or traded

23. The width of a single human hair is around 100 _____.

n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

ANSWERS: 17. nozzle, 18. filament, 19. patient's, 20. branch, 21. complexity, 22. exchange, 23. microns

24. The _____ train was packed with commuters during rush hour.
n. a cylindrical container of metal, plastic, glass, etc., usually sealed and used as a means of preserving food or chemicals; a hollow cylindrical shape
25. I used to play with my younger male _____ when I was a little girl.
n. the child of your aunt or uncle
26. Professional skaters can spin fast on the ice without getting _____.
adj. having or causing a whirling sensation and not able to keep balance
27. The artist used a pasta machine to _____ clay into intricate shapes.
v. to force, push, or press out through a narrow opening or nozzle, often in a continuous fashion; to shape materials by squeezing them through a die or mold
28. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
29. Hydrogen and oxygen _____ to form water.
v. to join or merge to form a single thing or group
30. 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
31. The customer on the Internet has to choose one from a formidable _____ of products.
n. a large group or collection of things or people, especially one that is impressive or attractive

ANSWERS: 24. tube, 25. cousins, 26. dizzy, 27. extrude, 28. medicinal, 29. combine, 30. liver, 31. array

32. What is the _____ of the consumption tax in the United States?
n. the number, amount, or rate of something, which is usually the amount per hundred
33. The Prime Minister will pay a courtesy visit to the Nobel laureate's _____.
n. a workplace for the conduct of scientific research; a laboratory
34. The _____ of getting the disease will drastically increase.
n. a chance that something may happen or be true
35. Eventually, the new design will _____ all older models.
v. to take the place of something
36. The _____ for applying for a visa can be lengthy and complicated.
n. a series of actions or operations performed to achieve a particular outcome or goal; a systematic procedure or approach used to accomplish a specific task or objective; a method of treating milk to make it suitable for consumption or use in other dairy products
37. The outermost _____ shell determines the chemical properties of an atom.
n. a tiny particle with the negative electrical charge
38. The heavy snow has been _____ since last morning.
adj. occurring or existing without a pause or interruption
39. She had to _____ the coffee beans before making a fresh cup.
v. to reduce something to small particles or powder by crushing or rubbing it; to work hard over a long period of time

ANSWERS: 32. percentage, 33. lab, 34. possibility, 35. replace, 36. process, 37. electron, 38. continuous, 39. grind

40. 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
41. _____ diamonds play an essential role as machine tool blades.
adj. made by combining chemical substances as opposed to being naturally occurring
42. The _____ cliff made it difficult to climb.
adj. having a sharp inclination or slope
43. The surgeon made an incision in the _____ of the patient's heart.
n. a large room used for a formal, public, or particular purpose; one of the parts of a parliament
44. _____ profiling is a new form of airport security.
adj. of or relating to a person's face
45. We had a _____ time yesterday.
adj. very great in degree or extent or amount or impact; extremely good
46. She's a _____ pet owner who ensures her dog gets enough exercise and a healthy diet.
adj. answerable or accountable for something within one's power, control, or management
47. His body rejected the liver of the _____.
n. a person or an organization that makes a gift of money, food, supplies, etc. to a cause or fund; in medicine, a person who gives blood or tissue or an organ to be used in another person

ANSWERS: 40. structure, 41. Synthetic, 42. steep, 43. chambers, 44. Facial, 45. tremendous, 46. responsible, 47. donor

48. He has terminal _____ cancer.

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

49. The flight _____ in Vancouver.

v. to come into existence in a particular place or situation; to start something in a specific place

50. Her response revealed _____ idiocy.

adj. unbelievable; enormous

51. The _____ properties of stem cells make them a promising area of research.

adj. tending to regrow or restore lost or injured tissue

52. I heard several melodic _____ simultaneously.

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

53. The _____ chip in my credit card allows me to make contactless payments.

adj. fixed firmly into the surface of something

54. The athlete's performance _____ all expectations, breaking a world record.

v. to surpass or go beyond a limit, expectation, or requirement; to be better or greater than anticipated or desired

55. 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

ANSWERS: 48. lung, 49. originates, 50. incredible, 51. regenerative, 52. strands, 53. embedded, 54. exceeded, 55. kidney

56. 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
57. He broke his _____ in a skiing accident.
- n.* the long bone in the upper leg, also referred to as the femur
58. _____ a number by itself twice.
- v.* to add a number to itself a specified number of times; to increase or cause to increase very much in number or quantity
59. Draw a circle five centimeters in _____.
- n.* the length of a straight line passing through the center of a circle and connecting two points on the circumference
60. The treatments were done but, _____ were unsuccessful.
- adv.* by bad luck; unluckily
61. He _____ hypotheses that no mathematician has ever imagined before.
- v.* to build or create something; to assemble or combine different parts to form something whole
62. There's a new _____ of hero in the movies now.
- n.* a type of product, service, etc., made by a particular company and sold under a specific name; identification mark on the skin of livestock, criminals, etc., made by burning

ANSWERS: 56. function, 57. thighbone, 58. Multiply, 59. diameter, 60. unfortunately, 61. constructs, 62. brand

63. _____ 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

64. He does not _____ importance to these rumors.

v. to fasten, join, or connect one thing to another

65. During colonial eras, new migratory patterns _____.

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

66. The _____ of the damaged tissue in the body is a slow process.

n. the process of regrowing or re-forming a body part or tissue that has been lost or damaged due to injury, disease, or other factors; restoration or renewal of vitality, strength, or spirit

67. Scientific knowledge will _____ significantly with the power of AI.

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

68. They spent a lot of time trying to _____ the current situation.

v. to take hold of something or someone quickly and firmly

69. He suffers from _____ breakdowns.

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

70. The company _____ the job candidate's application due to a lack of experience.

v. to refuse to accept, consider, or use something or someone

ANSWERS: 63. Biochemical, 64. attach, 65. emerged, 66. regeneration, 67. advance, 68. grasp, 69. nervous, 70. rejected

71. The doctor will _____ a pacemaker to regulate his heart rate.
- v.* to insert or fix an artificial device in a person's body; to put an idea, attitude, etc., firmly in the mind
72. I made a _____ at the bank to add money to my account.
- n.* a sum of money or materials placed or kept in a bank, safety deposit box, or other secure places for safekeeping; a layer of rock, sand, or other material left behind by a flowing liquid or eroding force
73. Don't _____ your mosquito bites.
- v.* to cut or damage the surface of something or the skin with a sharp or pointed object
74. 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
75. The _____ arrived in port the following day.
- n.* a ship or large boat
76. The building was _____ in the fire and had to be rebuilt.
- v.* to ruin or damage severely or completely; to eradicate or eliminate completely
77. 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
78. Most countries prohibit sexual activity between certain close _____.
- adj.* considered and evaluated through comparison with something else

ANSWERS: 71. implant, 72. deposit, 73. scratch, 74. develop, 75. vessel, 76. destroyed, 77. biology, 78. relatives

79. The mountain range was a _____ obstacle for the hikers.

adj. causing fear, apprehension, or awe; difficult to deal with or overcome; capable of inspiring respect or admiration

80. She fell and bruised her _____ on the edge of the table.

n. the long bone in the front of the leg, also referred to as the tibia

81. It is an incredible _____ to climb Mount Everest, the highest mountain in the world.

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

82. The tree had a _____ trunk, which made it easy for animals to take shelter inside.

adj. having a hole, empty space inside, or indentation on the surface

83. Her visit will _____ from Monday to Friday.

v. to broaden in scope, range, or area

84. The passenger grabbed for the _____ mask.

n. the chemical element with the symbol O that is present in air and water and is necessary for people, animals, and plants to live

85. She makes beautiful _____ in her studio and sells them at local markets.

n. objects made from materials such as clay that are hardened by heat, often to create functional or decorative items

86. He did complicated pen-and-ink drawings like medieval _____.

adj. being on a very small scale

ANSWERS: 79. formidable, 80. shinbone, 81. feat, 82. hollow, 83. extend, 84. oxygen, 85. ceramics, 86. miniatures

87. The medical _____ was infused with medications to help heal the wound faster.
- n.* a gel-like substance made of polymer chains that can absorb and retain large amounts of water; commonly used in medical and cosmetic applications, such as wound dressings and contact lenses
88. Jockey's superior _____ brought him victory.
- n.* a particular way or art of doing something that needs skill
89. Five miles is _____ similar to eight kilometers.
- adv.* approximately but not precisely; with a violent manner
90. He tried to _____ the seedling into a larger pot.
- v.* to move or transfer something from one place or person to another; to take living tissue or an organ from one person, animal, part of the body, etc. and put it into or onto another
91. They _____ customers with a premium for loyal patronage.
- v.* to give someone support, confidence, or hope; to persuade someone to do or continue to do something by making it easier for them and making them believe it is a good thing to do
92. Drinking too much coffee can irritate the _____ and cause frequent urination.
- n.* a hollow, flexible sac-like organ in the body that stores and expels fluids, such as urine or bile
93. The knee joint is supported by _____ which helps absorb shock and prevent bone damage.
- n.* a tough, elastic connective tissue that is found in various parts of the body, such as the joints, the outer ear, and the tip of the nose

ANSWERS: 87. hydrogel, 88. technique, 89. roughly, 90. transplant, 91. encouraged, 92. bladder, 93. cartilage,

94. Advocates for legal reform hear less harsh words from their _____.
- n.* someone who expresses opinions about the quality of books, music, etc.
95. We will attempt to _____ some of your suggestions into our future strategy.
- v.* to include something as a part of a larger entity
96. The _____ cells in the articular cartilage are responsible for maintaining joint health.
- n.* a specialized type of cell that produces and maintains the extracellular matrix of cartilage, a connective tissue found in many parts of the body
97. Dolphins use sound to _____ with each other.
- v.* to share or exchange information with others by speaking, writing, moving your body, or using other signals
98. The shape of the DNA _____ is a double helix.
- n.* a group of two or more atoms held together by attractive forces known as chemical bonds
99. The car body scraped off with a _____.
- n.* the hard, slightly curved part that covers the outer tip of each finger
100. The raising of interest rates _____ the inflation rate.
- v.* to become or cause to become steady or unlikely to give way

ANSWERS: 94. critics, 95. incorporate, 96. chondrocyte, 97. communicate, 98. molecule, 99. fingernail, 100. stabilizes