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Vocabulary Builder Reference from...

Nina Tandon: Caring for engineered tissue | TED Talk
https://www.ted.com/talks/nina_tandon_caring_for_engineered_tissue

All Words

IMPORTANT

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Session 1: Word List

amazing

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

synonym : exceptional, extraordinary, wonderful

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

The golfer recorded an **amazing** distance.

itsy-bitsy

adj. very small or tiny

synonym : tiny, small, miniature

(1) **itsy-bitsy** spider, (2) **itsy-bitsy** detail

Scientists use powerful microscopes to study **itsy-bitsy** particles.

creature

n. a living being, especially an animal

synonym : being, animal, organism

(1) **creature** of habit, (2) artificial **creature**

The deep sea **creature** was unlike anything the scientists had ever seen before.

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**.

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**.

petri

n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

(1) **petri** dish test, (2) bacteria on **petri** dishes

Glass **petri** dishes are used to culture microorganisms.

sterile

adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing

synonym : clean, germ-free, hygienic

(1) **sterile** environment, (2) a **sterile** man

Surgeons must use **sterile** instruments to prevent infection during an operation.

incubator

n. an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses

synonym : hatchery, brooder, nursery

(1) infant **incubator**, (2) business **incubator** program

The eggs were placed in an artificial **incubator** to ensure proper hatching conditions.

observe

v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion

synonym : watch, monitor, scrutinize

(1) **observe** a tradition, (2) **observe** wildlife

It is important to **observe** safety procedures in the workplace to prevent accidents.

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.

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.

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.

tradition

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

synonym : custom, practice, ritual

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

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

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.

homesick

adj. feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them for a significant length of time

synonym: nostalgic, longing, yearning

(1) suffer from **homesick**, (2) **homesick** for home
The military personnel stationed overseas often feel **homesick** for their loved ones.

thrive

v. to grow vigorously; to make steady progress

synonym: bloom, flourish, prosper

(1) **thrive** in a society, (2) **thrive** on pressure

Without investment, a business cannot **thrive**.

biomimetics

n. the study of natural systems and structures to create new technologies or improve existing ones

(1) **biomimetics** research, (2) **biomimetics** technology

The aircraft's design was inspired by **biomimetics** principles, which allowed for improved aerodynamics and reduced fuel consumption.

paradigm

n. a standard or typical example of something; a pattern or model

synonym: example, standard, epitome

(1) major **paradigm** shift, (2) cultural **paradigm**

He postulated a completely different **paradigm** to explain all these phenomena.

topic

n. a subject that is being discussed or written about

synonym: subject, theme, issue

(1) a serious **topic**, (2) the **topic** of the book
The **topic** of the discussion was the current state of the economy.

rhythmic

adj. having a pattern of regular beats or a regular beat; characterized by rhythm

synonym: measured, metrical, cadenced

(1) a **rhythmic** stroking, (2) in a **rhythmic** pace
The **rhythmic** sound of the drums was mesmerizing.

tirelessly

adv. without getting tired or fatigued; persistently, energetically, and continuously working with great effort

synonym: inexhaustibly, indefatigably, unceasingly

(1) dedicated **tirelessly**, (2) **tirelessly** help out
She worked **tirelessly** for hours to finish her project on time.

faithful

adj. loyal, constant, and steadfast in affection or allegiance

synonym: loyal, devoted, true

(1) **faithful** friend, (2) totally **faithful**
He remained **faithful** to his wife throughout their marriage.

outfit

n. a set of clothing worn together, typically for a particular occasion or activity; any cohesive unit such as a company, military, etc.

synonym: ensemble, set, suit

(1) camping **outfit**, (2) a construction **outfit**
I need to buy a new **outfit** for the wedding I'm attending next weekend.

electrode

n. either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region

(1) platinum **electrodes**, (2) **electrode** corrosion
It is important to place the **electrodes** in the correct position for accurate electro-cardiogram recording.

pacemaker

n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

synonym : heartbeat regulator, pacer, pacesetter

(1) implanted **pacemaker**, (2) **pacemaker** battery

Some people with **pacemakers** may need to avoid certain activities or sources of electromagnetic interference.

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.

greedy

adj. having or showing an intense or insatiable desire for wealth, status, power, or food

synonym : avaricious, covetous, grasping

(1) **greedy** person, (2) **greedy** for money

His **greedy** behavior led him to steal from the company.

dense

adj. containing a large number of people or something with little space between them

synonym : heavy, thick, idiotic

(1) nutrient- **dense** foods, (2) **dense** forests

The entire mountain is covered in **dense** rainforest.

micro

n. extremely small in scale or scope; one millionth

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

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

biomaterial

n. a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

(1) **biomaterial** development, (2) **biomaterials** industry
The new **biomaterials** used in implants are more durable and less likely to cause an immune response.

scaffold

n. a temporary platform or structure used to support workers and materials during construction or maintenance work

synonym: platform, staging, framework

(1) **scaffold** construction, (2) go to the **scaffold**

The construction workers set up the **scaffold** to reach the top of the building.

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.

electrical

adj. relating to electricity

(1) an **electrical** storm, (2) degree in **electrical** engineering

Actuators convert **electrical** pulses into motion.

stimulation

n. the act of arousing interest or activity in something; the action of providing a stimulus

synonym: activation, arousal, excitation

(1) **stimulation** of the economy, (2) **stimulation** of the senses

The **stimulation** of certain chemicals activates the brain's reward system.

essential

adj. indispensable; fundamental

synonym: critical, crucial, basic

(1) **essential** amino acid, (2) **essential** commodities of life

Trial and error is an **essential** part of education.

marshmallow

n. a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into

shapes or used as a topping or decoration for desserts

(1) **marshmallow** fluff, (2) **marshmallow** treat

She roasted **marshmallows** over the campfire.

stimulate

v. to encourage something to develop or become more active; to stir the feelings or emotions

synonym: excite, provoke, arouse

(1) **stimulate** the economy, (2) **stimulate** the nervous system

The book **stimulated** my imagination.

identity

n. the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another

synonym: character, personality, individuality

(1) mistaken **identity**, (2) **identity** as an individual

The terrorist's **identity** remains unknown.

crisis

n. a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken

synonym: concern, problem, emergency

(1) financial **crisis**, (2) **crisis** management

The Chinese word for **crisis** comprises two characters, one for danger and the other for opportunity.

structural

adj. associated with the way on construction or organization of anything

synonym: architectural, basic, anatomical

(1) **structural** analyses, (2) **structural** reorganization

The earthquake resulted in significant **structural** destruction.

abstract

adj. based on general ideas, feelings, or qualities and not on any a physical or concrete existence

synonym: conceptual, theoretical, ideational

(1) an **abstract** noun, (2) **abstract** science

The invention of the camera triggered the development of **abstract** painting.

concept

n. an idea or principle associated with something abstract
synonym : idea, notion, vision

(1) learn new **concepts**, (2) **concept** car

One such rapidly growing **concept** is quantum cryptography.

sustain

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

synonym : maintain, nurture, support

(1) **sustain** a good relationship with him, (2) **sustain** a wellness lifestyle

She struggled to **sustain** the children's reading habits.

flora

n. all the plants in a particular region or time, typically regarded as a whole

synonym : vegetation, plants, greenery

(1) bowel **flora**, (2) aquatic **flora**

The Amazon rainforest is home to a diverse **flora** of plant species.

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.

mediate

v. to try to bring about an agreement or understanding between people who are in conflict

synonym : arbitrate, reconcile, intervene

(1) **mediate** allergic reaction, (2) **mediate** a negotiation

The teacher had to **mediate** a disagreement between two students over a stolen pencil.

sight

n. the ability to see; anything that is seen

synonym: vision, spectacle, view

(1) an unexpected **sight**, (2) dull **sight**

Many famous **sights** are within walking distance.

corresponding

adj. similar to, connected with, or accompanying something, especially in position or purpose

synonym: matching, equivalent, analogous

(1) find a **corresponding** lack, (2) the **corresponding** word in Spanish

The **corresponding** number on the dial was 3.

interpret

v. to explain or assign the meaning of information, actions, etc.

synonym: decode, decipher, analyze

(1) **interpret** a graph, (2) **interpret** the question

Different people might **interpret** this news differently.

beg

v. to ask for something urgently or earnestly; to appeal to someone to do something

synonym: plead, implore, entreat

(1) **beg** the question, (2) **beg** for help

She **begged** her parents to let her go to the concert.

expand

v. to increase or to make something greater in size, number, or importance

synonym: extend, grow, boost

(1) **expand** a lineup, (2) **expand** agricultural output

They hope to **expand** their business worldwide.

steward

n. a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.

synonym: caretaker, manager, custodian

(1) **steward** duties, (2) **steward** service

The **steward** on the flight was very helpful in assisting passengers with their needs.

ecosystem

n. all the plants and living creatures in an area and the way they affect each other and the environment

(1) marine **ecosystem**, (2) change the **ecosystem**

Human conservation efforts often fail unexpectedly because they disturb the balance of the **ecosystem**.

invite

v. to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

synonym: ask, request, summon

(1) **invite** guests, (2) **invite** criticism

We want to **invite** you to our annual charity event.

meantime

n. the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else

synonym: interim, meanwhile, lag

(1) **meantime** report, (2) for the **meantime**

In the **meantime**, while we wait for the results, let's start working on the next project.

cancer

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

synonym: tumor, carcinoma, malignancy

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

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

endangered

adj. at risk of extinction because it is facing significant threats

synonym: at risk, threatened, vulnerable

(1) **endangered** species, (2) **endangered** ecosystem

The government has implemented policies to protect the habitat of **endangered** animals.

Session 2: Spelling

- | | |
|------------------------------------|---|
| 1. co_____t car | <i>n.</i> an idea or principle associated with something abstract |
| 2. end_____ed ecosystem | <i>adj.</i> at risk of extinction because it is facing significant threats |
| 3. ex____d agricultural output | <i>v.</i> to increase or to make something greater in size, number, or importance |
| 4. mi__o bubble | <i>n.</i> extremely small in scale or scope; one millionth |
| 5. de__e forests | <i>adj.</i> containing a large number of people or something with little space between them |
| 6. bacteria on pe__i dishes | <i>n.</i> (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria |
| 7. the cor_____ing word in Spanish | <i>adj.</i> similar to, connected with, or accompanying something, especially in position or purpose |
| 8. a ca_____ry tube | <i>n.</i> a tube of small internal diameter; any of the minute tubes that carry blood |
| 9. bowel fl__a | <i>n.</i> all the plants in a particular region or time, typically regarded as a whole |
| 10. me_____e allergic reaction | <i>v.</i> to try to bring about an agreement or understanding between people who are in conflict |
| 11. cr____s management | <i>n.</i> a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken |

ANSWERS: 1. concept, 2. endangered, 3. expand, 4. micro, 5. dense, 6. petri, 7. corresponding, 8. capillary, 9. flora, 10. mediate, 11. crisis

12. its_____sy detail *adj.* very small or tiny
13. es_____al amino acid *adj.* indispensable; fundamental
14. nutrient-de__e foods *adj.* containing a large number of people or something with little space between them
15. in_____et the question *v.* to explain or assign the meaning of information, actions, etc.
16. artificial cr_____re *n.* a living being, especially an animal
17. in_____et a graph *v.* to explain or assign the meaning of information, actions, etc.
18. platinum el_____des *n.* either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
19. for the me_____me *n.* the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else
20. dull si__t *n.* the ability to see; anything that is seen
21. 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
22. a rh_____ic stroking *adj.* having a pattern of regular beats or a regular beat; characterized by rhythm
23. su_____n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid

ANSWERS: 12. itsy-bitsy, 13. essential, 14. dense, 15. interpret, 16. creature, 17. interpret, 18. electrode, 19. meantime, 20. sight, 21. disease, 22. rhythmic, 23. sustain

24. 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
25. against tr_____on *n.* a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
26. fa_____ul friend *adj.* loyal, constant, and steadfast in affection or allegiance
27. dedicated tir_____ly *adv.* without getting tired or fatigued; persistently, energetically, and continuously working with great effort
28. 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
29. an ab_____ct noun *adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
30. implanted pa_____er *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
31. st_____e environment *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
32. ex____d a lineup *v.* to increase or to make something greater in size, number, or importance

ANSWERS: 24. contract, 25. tradition, 26. faithful, 27. tirelessly, 28. disease, 29. abstract, 30. pacemaker, 31. sterile, 32. expand

33. me_____me report *n.* the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else
34. sti_____on of the economy *n.* the act of arousing interest or activity in something; the action of providing a stimulus
35. financial cr____s *n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
36. a civil en_____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
37. aquatic fl__a *n.* all the plants in a particular region or time, typically regarded as a whole
38. a facial ti____e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
39. env_____nt affairs *n.* the natural world such as air, water, and land in which humans, animals, and plants live
40. st_____te the economy *v.* to encourage something to develop or become more active; to stir the feelings or emotions
41. sc_____ld construction *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
42. suffer from ho_____ck *adj.* feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them for a significant length of time

ANSWERS: 33. meantime, 34. stimulation, 35. crisis, 36. engineer, 37. flora, 38. tissue, 39. environment, 40. stimulate, 41. scaffold, 42. homesick

43. go to the sc_____ld *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
44. mi__o force sensor *n.* extremely small in scale or scope; one millionth
45. ob_____e a tradition *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
46. change the ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
47. mistaken id_____ty *n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
48. pa_____er battery *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
49. medical l_b *n.* a workplace for the conduct of scientific research; a laboratory
50. 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
51. cultural pa_____gm *n.* a standard or typical example of something; a pattern or model

ANSWERS: 43. scaffold, 44. micro, 45. observe, 46. ecosystem, 47. identity, 48. pacemaker, 49. lab, 50. native, 51. paradigm

52. b_g for help *v.* to ask for something urgently or earnestly; to appeal to someone to do something
53. ho_____ck for home *adj.* feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them for a significant length of time
54. th___e on pressure *v.* to grow vigorously; to make steady progress
55. 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
56. gr___y person *adj.* having or showing an intense or insatiable desire for wealth, status, power, or food
57. gr___y for money *adj.* having or showing an intense or insatiable desire for wealth, status, power, or food
58. an unexpected si__t *n.* the ability to see; anything that is seen
59. b_g the question *v.* to ask for something urgently or earnestly; to appeal to someone to do something
60. major pa_____gm shift *n.* a standard or typical example of something; a pattern or model
61. 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

ANSWERS: 52. beg, 53. homesick, 54. thrive, 55. native, 56. greedy, 57. greedy, 58. sight, 59. beg, 60. paradigm, 61. gut

62. the to__c of the book *n.* a subject that is being discussed or written about
63. pe__i dish test *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
64. bio_____al development *n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues
65. its_____sy spider *adj.* very small or tiny
66. cr_____re of habit *n.* a living being, especially an animal
67. l_b instrument *n.* a workplace for the conduct of scientific research; a laboratory
68. end_____ed species *adj.* at risk of extinction because it is facing significant threats
69. ca_____ry action *n.* a tube of small internal diameter; any of the minute tubes that carry blood
70. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
71. learn new co_____ts *n.* an idea or principle associated with something abstract
72. totally fa_____ul *adj.* loyal, constant, and steadfast in affection or allegiance
73. loss of muscle ti_____e *n.* an ensemble of similar cells of the animal or plant that together carry out a specific function
74. in_____e criticism *v.* to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place

ANSWERS: 62. topic, 63. petri, 64. biomaterial, 65. itsy-bitsy, 66. creature, 67. lab, 68. endangered, 69. capillary, 70. engineer, 71. concept, 72. faithful, 73. tissue, 74. invite

75. the most am_____g feeling *adj.* extremely surprising, especially in a way that you like or admire
76. th___e in a society *v.* to grow vigorously; to make steady progress
77. the te_____ue applied to construction *n.* a particular way or art of doing something that needs skill
78. me_____e a negotiation *v.* to try to bring about an agreement or understanding between people who are in conflict
79. infant in_____or *n.* an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses
80. str_____al reorganization *adj.* associated with the way on construction or organization of anything
81. a serious to__c *n.* a subject that is being discussed or written about
82. a te_____ue in martial arts *n.* a particular way or art of doing something that needs skill
83. 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
84. business in_____or program *n.* an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses

ANSWERS: 75. amazing, 76. thrive, 77. technique, 78. mediate, 79. incubator, 80. structural, 81. topic, 82. technique, 83. contract, 84. incubator

85. id_____ty as an individual *n.* the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
86. st_____te the nervous system *v.* to encourage something to develop or become more active; to stir the feelings or emotions
87. st_____d duties *n.* a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.
88. marine ec_____em *n.* all the plants and living creatures in an area and the way they affect each other and the environment
89. bio_____als industry *n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues
90. ca_____r diagnosis *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
91. bio_____cs technology *n.* the study of natural systems and structures to create new technologies or improve existing ones
92. a construction ou_____t *n.* a set of clothing worn together, typically for a particular occasion or activity; any cohesive unit such as a company, military, etc.

ANSWERS: 85. identity, 86. stimulate, 87. steward, 88. ecosystem, 89. biomaterial, 90. cancer, 91. biomimetics, 92. outfit

93. a tr_____on of a culture
n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society
94. in a rh_____ic pace
adj. having a pattern of regular beats or a regular beat; characterized by rhythm
95. in_____e guests
v. to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
96. 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
97. camping ou_____t
n. a set of clothing worn together, typically for a particular occasion or activity; any cohesive unit such as a company, military, etc.
98. am_____g advances
adj. extremely surprising, especially in a way that you like or admire
99. tir_____ly help out
adv. without getting tired or fatigued; persistently, energetically, and continuously working with great effort
100. st_____d service
n. a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.

ANSWERS: 93. tradition, 94. rhythmic, 95. invite, 96. gut, 97. outfit, 98. amazing, 99. tirelessly, 100. steward

101. es_____al commodities of life *adj.* indispensable; fundamental
102. el_____de corrosion *n.* either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
103. chaotic env_____nt *n.* the natural world such as air, water, and land in which humans, animals, and plants live
104. su_____n a good relationship with him *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
105. ca____r research *n.* abnormal growth of cells that can invade and destroy surrounding tissues and organs; a disease characterized by the uncontrolled growth and spread of abnormal cells
106. find a cor_____ing lack *adj.* similar to, connected with, or accompanying something, especially in position or purpose
107. bio_____cs research *n.* the study of natural systems and structures to create new technologies or improve existing ones
108. mar_____ow treat *n.* a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into shapes or used as a topping or decoration for desserts
109. degree in ele_____al engineering *adj.* relating to electricity
110. str_____al analyses *adj.* associated with the way on construction or organization of anything

ANSWERS: 101. essential, 102. electrode, 103. environment, 104. sustain, 105. cancer, 106. corresponding, 107. biomimetics, 108. marshmallow, 109. electrical, 110. structural

111. an ele_____al storm *adj.* relating to electricity
112. mar_____ow fluff *n.* a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into shapes or used as a topping or decoration for desserts
113. sti_____on of the senses *n.* the act of arousing interest or activity in something; the action of providing a stimulus
114. ob_____e wildlife *v.* to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
115. ab_____ct science *adj.* based on general ideas, feelings, or qualities and not on any a physical or concrete existence
116. a st_____e man *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing

ANSWERS: 111. electrical, 112. marshmallow, 113. stimulation, 114. observe, 115. abstract, 116. sterile

Session 3: Fill in the Blanks

1. The military personnel stationed overseas often feel _____ for their loved ones.
adj. feeling sad or nostalgic for one's home, family, or familiar surroundings, especially when away from them for a significant length of time
2. The entire mountain is covered in _____ rainforest.
adj. containing a large number of people or something with little space between them
3. She _____ her parents to let her go to the concert.
v. to ask for something urgently or earnestly; to appeal to someone to do something
4. 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
5. It is important to place the _____ in the correct position for accurate electro-cardiogram recording.
n. either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
6. There are many _____ vessels in the gills of fish.
n. a tube of small internal diameter; any of the minute tubes that carry blood
7. It is a _____ in many families to have a big Thanksgiving dinner with all their relatives.
n. a belief, custom, or way of doing something that has been passed down from generation to generation within a group or society

ANSWERS: 1. homesick, 2. dense, 3. begged, 4. tissue, 5. electrodes, 6. capillary, 7. tradition

8. The _____ will repair my telephone tomorrow morning.
n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
9. The invention of the camera triggered the development of _____ painting.
adj. based on general ideas, feelings, or qualities and not on any a physical or concrete existence
10. The earthquake resulted in significant _____ destruction.
adj. associated with the way on construction or organization of anything
11. Many famous _____ are within walking distance.
n. the ability to see; anything that is seen
12. The terrorist's _____ remains unknown.
n. the fact of being who or what somebody or something is; the features, emotions, or ideas that distinguish persons from one another
13. 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
14. It is important to _____ safety procedures in the workplace to prevent accidents.
v. to watch or notice something carefully, often to gather information or insights; to take note of something or someone; to celebrate or commemorate a special event or occasion
15. Without investment, a business cannot _____.
v. to grow vigorously; to make steady progress

ANSWERS: 8. engineer, 9. abstract, 10. structural, 11. sights, 12. identity, 13. contract, 14. observe, 15. thrive

16. The government has implemented policies to protect the habitat of _____ animals.

adj. at risk of extinction because it is facing significant threats

17. The golfer recorded an _____ distance.

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

18. Some people with _____ may need to avoid certain activities or sources of electromagnetic interference.

n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

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

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

20. The new _____ used in implants are more durable and less likely to cause an immune response.

n. a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

21. He remained _____ to his wife throughout their marriage.

adj. loyal, constant, and steadfast in affection or allegiance

22. In the _____ while we wait for the results, let's start working on the next project.

n. the interval or period of time between two events; the interim or temporary time period between two actions or stages of something else

ANSWERS: 16. endangered, 17. amazing, 18. pacemakers, 19. cancer, 20. biomaterials, 21. faithful, 22. meantime,

23. Surgeons must use _____ instruments to prevent infection during an operation.
adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
24. Glass _____ dishes are used to culture microorganisms.
n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
25. He postulated a completely different _____ to explain all these phenomena.
n. a standard or typical example of something; a pattern or model
26. The construction workers set up the _____ to reach the top of the building.
n. a temporary platform or structure used to support workers and materials during construction or maintenance work
27. We want to _____ you to our annual charity event.
v. to ask someone to come or join; to offer an opportunity or possibility for something to happen or take place
28. She roasted _____ over the campfire.
n. a spongy confection made from sugar, corn syrup, and gelatin, often flavored with vanilla and molded into shapes or used as a topping or decoration for desserts
29. 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
30. His _____ behavior led him to steal from the company.
adj. having or showing an intense or insatiable desire for wealth, status, power, or food

ANSWERS: 23. sterile, 24. petri, 25. paradigm, 26. scaffold, 27. invite, 28. marshmallows, 29. disease, 30. greedy

31. The _____ of the discussion was the current state of the economy.

n. a subject that is being discussed or written about

32. She worked _____ for hours to finish her project on time.

adv. without getting tired or fatigued; persistently, energetically, and continuously working with great effort

33. 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

34. Jockey's superior _____ brought him victory.

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

35. The _____ sound of the drums was mesmerizing.

adj. having a pattern of regular beats or a regular beat; characterized by rhythm

36. 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

37. The _____ number on the dial was 3.

adj. similar to, connected with, or accompanying something, especially in position or purpose

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

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

39. Different people might _____ this news differently.

v. to explain or assign the meaning of information, actions, etc.

ANSWERS: 31. topic, 32. tirelessly, 33. native, 34. technique, 35. rhythmic, 36. environment, 37. corresponding, 38. lab, 39. interpret

40. The Chinese word for _____ comprises two characters, one for danger and the other for opportunity.
- n.* a time of great disagreement, confusion, or danger when problems must be resolved or critical decisions must be taken
41. 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
42. This approach employs both _____ and macro analysis methods.
- n.* extremely small in scale or scope; one millionth
43. She struggled to _____ the children's reading habits.
- v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
44. One such rapidly growing _____ is quantum cryptography.
- n.* an idea or principle associated with something abstract
45. Human conservation efforts often fail unexpectedly because they disturb the balance of the _____.
- n.* all the plants and living creatures in an area and the way they affect each other and the environment
46. The teacher had to _____ a disagreement between two students over a stolen pencil.
- v.* to try to bring about an agreement or understanding between people who are in conflict

ANSWERS: 40. crisis, 41. gut-wrenching, 42. micro, 43. sustain, 44. concept, 45. ecosystem, 46. mediate

47. The _____ on the flight was very helpful in assisting passengers with their needs.
- n.* a person responsible for the management and care of another's property or for the supervision of the domestic staff of a large household or organization; a person in charge of arranging for the supply of food to a college, club, etc.
48. The eggs were placed in an artificial _____ to ensure proper hatching conditions.
- n.* an apparatus in which conditions are controlled for hatching eggs, growing cells, or keeping people or animals warm; a place, especially with support staff and equipment, offered at a low cost to new small businesses
49. Trial and error is an _____ part of education.
- adj.* indispensable; fundamental
50. They hope to _____ their business worldwide.
- v.* to increase or to make something greater in size, number, or importance
51. Scientists use powerful microscopes to study _____ particles.
- adj.* very small or tiny
52. The deep sea _____ was unlike anything the scientists had ever seen before.
- n.* a living being, especially an animal
53. The book _____ my imagination.
- v.* to encourage something to develop or become more active; to stir the feelings or emotions
54. The _____ of certain chemicals activates the brain's reward system.
- n.* the act of arousing interest or activity in something; the action of providing a stimulus

ANSWERS: 47. steward, 48. incubator, 49. essential, 50. expand, 51. itty-bitty, 52. creature, 53. stimulated, 54. stimulation

55. Actuators convert _____ pulses into motion.

adj. relating to electricity

56. The Amazon rainforest is home to a diverse _____ of plant species.

n. all the plants in a particular region or time, typically regarded as a whole

57. I need to buy a new _____ for the wedding I'm attending next weekend.

n. a set of clothing worn together, typically for a particular occasion or activity; any cohesive unit such as a company, military, etc.

58. The aircraft's design was inspired by _____ principles, which allowed for improved aerodynamics and reduced fuel consumption.

n. the study of natural systems and structures to create new technologies or improve existing ones

ANSWERS: 55. electrical, 56. flora, 57. outfit, 58. biomimetics