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Vocabulary Builder Reference from...

Sergiu P. Pasca: How we're reverse engineering the human brain in the lab | TED Talk

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

Advanced Words Only

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Session 1: Word List

neuron

n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

axon

n. a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell

(1) an **axon** of a nerve cell, (2) the **axon** terminals

We are developing a technology to promote the elongation and regeneration of sensory nerve **axons**.

contraction

n. the act or process of becoming smaller or shorter in size, volume, or amount

synonym: shrinking, compression, reduction

(1) **contraction** of a disease, (2) **contraction** in the industry

The **contraction** of the economy has led to job losses.

clump

n. a small group of bushes, trees, flowers, people, etc.

synonym: cluster, bunch, bundle

(1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

organoid

n. a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments

synonym: tissue, cell culture, organ culture

(1) **organoid** culture, (2) **organoid** research

The development of **organoids** has opened up new avenues for research into the early stages of fetal development

assembloid

n. a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way

synonym: artificial cell, synthetic cell, construct

(1) **assembloid** growth, (2) **assembloid** technology

The **assembloid** cells were found to be highly malignant under the microscope.

unconventional

adj. not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards

synonym: nontraditional, avant-garde, bizarre

(1) in an **unconventional** manner, (2) **unconventional** ideas

Her **unconventional** approach to teaching has been a hit with the students.

depict

v. to illustrate someone or something in a photograph

synonym: illustrate, describe, express

(1) **depict** a scene, (2) **depict** a feeling of isolation

His son had accurately **depicted** the bloom.

paraphrase

v. to restate or reword a passage in one's own words, often to clarify or simplify the original meaning

synonym: rephrase, reword, reinterpret

(1) **paraphrase** a poem into prose, (2) **paraphrase** the

meaning

He **paraphrased** the article in his own words to avoid being accused of plagiarism.

poke

v. to push or prod with a sharp object or the finger

synonym: prod, jab, push

(1) **poke** around the desk, (2) **poke** a fire

They **poked** fun at each other's jokes, laughing and teasing.

mumbo

n. a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask

synonym: nonsense, gibberish, hocus-pocus

(1) **mumbo-jumbo** mystery, (2) science **mumbo** jumbo

The politician's speech was **mumbo** jumbo and needed to be clearer to the audience.

jumbo

n. an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"

synonym: elephantine, mammoth, giant

(1) **jumbo** jet, (2) **jumbo** shrimp

I need to buy a **jumbo-sized** bag of dog food for my large-breed puppy.

coax

v. to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly

synonym: persuade, cajole, lure

(1) **coax** a confession, (2) **coax** a smile

She tried to **coax** her cat out of the tree with a can of tuna.

reprogram

v. to modify or recreate a program

synonym: recreate, modify, revamp

(1) **reprogram** a device, (2) **reprogram** a database

He **reprogrammed** the computer's operating system to

remove the safeguard.

alchemy

n. a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

synonym : sorcery, magic, transmutation

(1) **alchemy** experiment, (2) **alchemy** of emotions

Today, the study of **alchemy** remains an important part of the history of science and philosophy

dissociation

n. the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms

synonym : separation, detachment, disconnection

(1) trauma-related **dissociation**, (2) **dissociation** reaction

His **dissociation** from his emotions made him distant and unresponsive.

sparkle

v. to emit or reflect bright flashes of light, especially with animation and joy

synonym : shine, glimmer, twinkle

(1) **sparkle** like a gem, (2) **sparkle** from receiving light

The diamond **sparkled** in the sunlight.

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.

postnatal

adj. referring to the period following the birth of a child or to any event or process occurring during that period

synonym : postpartum, after-birth, post-delivery

(1) **postnatal** care, (2) **postnatal** depression

After having a baby, women undergo **postnatal** checkups to monitor their physical and emotional health.

uterus

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

synonym : womb

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

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

underlie

v. to be the support, basis, hidden cause of something; to be located under or below

synonym : govern, control, determine

(1) **underlie** the theory of the big bang, (2) **underlie** the current economic deadlock

His bitter experiences **underlie** his moral principles.

decelerate

v. to slow down or reduce the speed of something; to decrease in speed

synonym : slow down, slacken, brake

(1) **decelerate** slowly, (2) **decelerate** approach

The driver had to **decelerate** quickly to avoid hitting the red light.

rejuvenate

v. to make someone or something look or feel younger, fresher, or more lively

synonym : revitalize, renew, refresh

(1) **rejuvenate** a downtown area, (2) **rejuvenate** energy

The spa treatment promised to **rejuvenate** her skin and leave her feeling refreshed.

minibrain

n. a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development

synonym : cerebral organoid, brain organoid, mini cerebrum

(1) **minibrain** in vitro models, (2) **minibrain** modeling

The development of **minibrains** has revolutionized the study of neurological disorders.

societal

adj. relating to society or social relationships

synonym : social, communal, cultural

(1) **societal** norms, (2) **societal** expectations

The **societal** pressure to conform is strong in this community.

fused

adj. joined together or combined into one; blended or integrated in a way that creates a new entity

synonym : merged, blended, united

(1) **fused** glass, (2) **fused** bones

The **fused** wires in the electrical circuit caused a power outage.

schizophrenia

n. a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior

synonym : psychosis, disorder, mental illness

(1) **schizophrenia** spectrum disorder, (2) **schizophrenia** treatment

The **schizophrenia** patient was experiencing severe auditory hallucinations.

psychiatry

n. the branch of medicine concerned with the study, treatment, and prevention of mental illness

synonym : mental health, psychology, psychoanalysis

(1) **psychiatry** therapy, (2) biological **psychiatry**

The field of **psychiatry** is constantly evolving, with new treatments and approaches being developed all the time.

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.

dissect

v. to cut into pieces to study the structure of something in detail

synonym : analyze, examine, study

(1) **dissect** the data, (2) **dissect** a personality

The scientist **dissected** the frog to study its internal organs.

epilepsy

n. a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors

synonym : seizures, convulsions, fits

(1) **epilepsy** seizure, (2) **epilepsy** medication

The flashing lights at the concert triggered her **epilepsy** and caused a seizure.

revolutionize

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

synonym : transform, innovate, modernize

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

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

fuse

n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

synonym : (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another

He has a short **fuse**.

opportune

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

synonym : suitable, timely, practical

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

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

neuropsychiatric

adj. relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena

synonym : neurobehavioral, neuropsychological, psychiatric

(1) **neuropsychiatric** disorder, (2) **neuropsychiatric** evaluation

Researchers are studying the **neuropsychiatric** effects of certain medications on the brain.

infect

v. to affect a person, an animal, or a plant with a disease-causing organism

synonym : pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often **infect** parents with this head cold.

polio

n. an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

synonym : poliomyelitis, infantile paralysis

(1) **polio** epidemic, (2) **polio** eradication

The **polio** vaccine development is regarded as one of the greatest medical achievements of the 20th century.

statistician

n. a person who studies or is an expert in statistics

synonym : actuary

(1) professional **statisticians**, (2) environmental **statistician**

The firm employs several **statisticians** to develop a recommendation engine.

recreate

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

synonym: renovate, vivify, revive

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

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

Session 2: Spelling

- | | |
|----------------------------------|---|
| 1. in an unc_____nal manner | <i>adj.</i> not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards |
| 2. science mu__o jumbo | <i>n.</i> a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask |
| 3. re_____te a single country | <i>v.</i> to make something that existed previously happen or appear to exist again |
| 4. trauma-related dis_____ion | <i>n.</i> the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms |
| 5. de____t a scene | <i>v.</i> to illustrate someone or something in a photograph |
| 6. dec_____te approach | <i>v.</i> to slow down or reduce the speed of something; to decrease in speed |
| 7. the a__n terminals | <i>n.</i> a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell |
| 8. sch_____nia spectrum disorder | <i>n.</i> a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior |

ANSWERS: 1. unconventional, 2. mumbo, 3. recreate, 4. dissociation, 5. depict, 6. decelerate, 7. axon, 8. schizophrenia

9. di____t a personality *v.* to cut into pieces to study the structure of something in detail
10. a cl__p of trees *n.* a small group of bushes, trees, flowers, people, etc.
11. par_____se the meaning *v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning
12. po_____al depression *adj.* referring to the period following the birth of a child or to any event or process occurring during that period
13. dis_____ion reaction *n.* the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms
14. traditional me_____al *adj.* of or relating to the treatment or cure of disease
15. ju__o shrimp *n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"
16. ep_____sy medication *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
17. re_____te the feeling of the 1920s *v.* to make something that existed previously happen or appear to exist again

ANSWERS: 9. dissect, 10. clump, 11. paraphrase, 12. postnatal, 13. dissociation, 14. medicinal, 15. jumbo, 16. epilepsy, 17. recreate

18. or____id research *n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments
19. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
20. sp_____e from receiving light *v.* to emit or reflect bright flashes of light, especially with animation and joy
21. ass_____id technology *n.* a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way
22. sch_____nia treatment *n.* a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior
23. ne____n cell body *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
24. neu_____ric evaluation *adj.* relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena

ANSWERS: 18. organoid, 19. opportune, 20. sparkle, 21. assembloid, 22. schizophrenia, 23. neuron, 24. neuropsychiatric

25. rev_____ize the technology *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
26. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
27. par_____se a poem into prose *v.* to restate or reword a passage in one's own words, often to clarify or simplify the original meaning
28. mu__o-jumbo mystery *n.* a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask
29. p__e around the desk *v.* to push or prod with a sharp object or the finger
30. ass_____id growth *n.* a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way
31. rev_____ize the industry *v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas
32. biological psy_____ry *n.* the branch of medicine concerned with the study, treatment, and prevention of mental illness
33. in___t a computer with a virus *v.* to affect a person, an animal, or a plant with a disease-causing organism
34. rej_____te energy *v.* to make someone or something look or feel younger, fresher, or more lively

ANSWERS: 25. revolutionize, 26. opportune, 27. paraphrase, 28. mumbo, 29. poke, 30. assembloid, 31. revolutionize, 32. psychiatry, 33. infect, 34. rejuvenate

35. professional sta_____ians *n.* a person who studies or is an expert in statistics
36. 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
37. so_____al norms *adj.* relating to society or social relationships
38. po__o epidemic *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
39. ut___s cancer *n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth
40. in___t other animal species *v.* to affect a person, an animal, or a plant with a disease-causing organism
41. cl__p of bacteria *n.* a small group of bushes, trees, flowers, people, etc.
42. dec_____te slowly *v.* to slow down or reduce the speed of something; to decrease in speed
43. so_____al expectations *adj.* relating to society or social relationships
44. con_____on in the industry *n.* the act or process of becoming smaller or shorter in size, volume, or amount
45. fu__d glass *adj.* joined together or combined into one; blended or integrated in a way that creates a new entity

ANSWERS: 35. statistician, 36. incubator, 37. societal, 38. polio, 39. uterus, 40. infect, 41. clump, 42. decelerate, 43. societal, 44. contraction, 45. fused

46. fu__d bones *adj.* joined together or combined into one; blended or integrated in a way that creates a new entity
47. c__x a smile *v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly
48. bleeding from ut___s *n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth
49. unc_____nal ideas *adj.* not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards
50. un_____ie the theory of the big bang *v.* to be the support, basis, hidden cause of something; to be located under or below
51. un_____ie the current economic deadlock *v.* to be the support, basis, hidden cause of something; to be located under or below
52. mi_____in modeling *n.* a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development
53. neu_____ric disorder *adj.* relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena

ANSWERS: 46. fused, 47. coax, 48. uterus, 49. unconventional, 50. underlie, 51. underlie, 52. minibrain, 53. neuropsychiatric

54. environmental sta_____ian *n.* a person who studies or is an expert in statistics
55. ju__o jet *n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"
56. po__o eradication *n.* an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability
57. or_____id culture *n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments
58. c__x a confession *v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly
59. po_____al care *adj.* referring to the period following the birth of a child or to any event or process occurring during that period
60. con_____on of a disease *n.* the act or process of becoming smaller or shorter in size, volume, or amount
61. f__e with one another *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

ANSWERS: 54. statistician, 55. jumbo, 56. polio, 57. organoid, 58. coax, 59. postnatal, 60. contraction, 61. fuse

62. an a__n of a nerve cell *n.* a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell
63. ep____sy seizure *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
64. rej_____te a downtown area *v.* to make someone or something look or feel younger, fresher, or more lively
65. sp_____e like a gem *v.* to emit or reflect bright flashes of light, especially with animation and joy
66. excite the ne____ns *n.* a cell that is specialized to carry information within the brain and between the brain and other parts of the body
67. p__e a fire *v.* to push or prod with a sharp object or the finger
68. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
69. al_____y experiment *n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious
70. 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

ANSWERS: 62. axon, 63. epilepsy, 64. rejuvenate, 65. sparkle, 66. neuron, 67. poke, 68. medicinal, 69. alchemy, 70. incubator

71. al_____y of emotions *n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious
72. re_____am a database *v.* to modify or recreate a program
73. mi_____in in vitro models *n.* a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development
74. f__e blows *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
75. de____t a feeling of isolation *v.* to illustrate someone or something in a photograph
76. re_____am a device *v.* to modify or recreate a program
77. psy_____ry therapy *n.* the branch of medicine concerned with the study, treatment, and prevention of mental illness
78. di_____t the data *v.* to cut into pieces to study the structure of something in detail

ANSWERS: 71. alchemy, 72. reprogram, 73. minibrain, 74. fuse, 75. depict, 76. reprogram, 77. psychiatry, 78. dissect

Session 3: Fill in the Blanks

1. The development of _____ has opened up new avenues for research into the early stages of fetal development
 - n.* a laboratory-grown miniature version of a human organ, usually derived from stem cells, that can be used for studying development, diseases, and treatments

2. We are developing a technology to promote the elongation and regeneration of sensory nerve _____.
 - n.* a long and slender projection of a nerve cell, or neuron, that sends out signals away from the nerve cell

3. I need to buy a _____ bag of dog food for my large-breed puppy.
 - n.* an extremely large or heavy object; an African elephant that was exhibited in a circus in the late 19th century and early 20th century and became widely known as "Jumbo"

4. The _____ patient was experiencing severe auditory hallucinations.
 - n.* a severe mental disorder in which a person has a distorted view of reality and may experience hallucinations, delusions, and disordered thinking and behavior

5. Researchers are studying the _____ effects of certain medications on the brain.
 - adj.* relating to mental disorders that have a neurological or physiological basis or to the study of the interplay between neurological and psychiatric phenomena

6. She tried to _____ her cat out of the tree with a can of tuna.
 - v.* to persuade, encourage, or gently urge someone to do something; to manipulate or persuade something to work or function properly

ANSWERS: 1. organoids, 2. axons, 3. jumbo-sized, 4. schizophrenia, 5. neuropsychiatric, 6. coax

7. The _____ cells were found to be highly malignant under the microscope.
n. a hypothetical construct that describes a complex organization of different types of cells or tissues, such as a network of neurons or a cluster of organs, that work together in a coordinated way
8. She _____ the atmosphere of the pre-war age with her stage setting.
v. to make something that existed previously happen or appear to exist again
9. Our body transfers information along each _____ using an electrical impulse.
n. a cell that is specialized to carry information within the brain and between the brain and other parts of the body
10. The driver had to _____ quickly to avoid hitting the red light.
v. to slow down or reduce the speed of something; to decrease in speed
11. Her _____ approach to teaching has been a hit with the students.
adj. not following traditional or commonly accepted beliefs, practices, or customs; not conforming to established norms or standards
12. The _____ of the economy has led to job losses.
n. the act or process of becoming smaller or shorter in size, volume, or amount
13. The _____ wires in the electrical circuit caused a power outage.
adj. joined together or combined into one; blended or integrated in a way that creates a new entity
14. The spa treatment promised to _____ her skin and leave her feeling refreshed.
v. to make someone or something look or feel younger, fresher, or more lively

ANSWERS: 7. assembloid, 8. recreated, 9. neuron, 10. decelerate, 11. unconventional, 12. contraction, 13. fused, 14. rejuvenate

15. The phone rang at the most _____ time.

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

16. The diamond _____ in the sunlight.

v. to emit or reflect bright flashes of light, especially with animation and joy

17. The field of _____ is constantly evolving, with new treatments and approaches being developed all the time.

n. the branch of medicine concerned with the study, treatment, and prevention of mental illness

18. They _____ fun at each other's jokes, laughing and teasing.

v. to push or prod with a sharp object or the finger

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

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

20. I heard the _____ of his boots in the hallway.

n. a small group of bushes, trees, flowers, people, etc.

21. The _____ pressure to conform is strong in this community.

adj. relating to society or social relationships

22. The _____ vaccine development is regarded as one of the greatest medical achievements of the 20th century.

n. an acute infectious disease caused by a virus that attacks nerve cells in the spinal cord and brain, leading to paralysis, muscle weakness, and potentially lifelong disability

ANSWERS: 15. opportune, 16. sparkled, 17. psychiatry, 18. poked, 19. medicinal, 20. clump, 21. societal, 22. polio

23. His bitter experiences _____ his moral principles.

- v.* to be the support, basis, hidden cause of something; to be located under or below

24. He _____ the computer's operating system to remove the safeguard.

- v.* to modify or recreate a program

25. Today, the study of _____ remains an important part of the history of science and philosophy

- n.* a medieval chemical philosophy and speculative theory that aimed to transform base metals into gold or produce a universal elixir that could cure all diseases and grant immortality; a process of transformation or creation that appears magical or mysterious

26. The scientist _____ the frog to study its internal organs.

- v.* to cut into pieces to study the structure of something in detail

27. His _____ from his emotions made him distant and unresponsive.

- n.* the separation of ideas, emotions, or memories from a person's consciousness; a process by which molecules or compounds separate into smaller units or individual atoms

28. The firm employs several _____ to develop a recommendation engine.

- n.* a person who studies or is an expert in statistics

29. The politician's speech was _____ jumbo and needed to be clearer to the audience.

- n.* a meaningless word or phrase used to distract, deceive or confuse someone; a type of African ceremonial mask

ANSWERS: 23. underlie, 24. reprogrammed, 25. alchemy, 26. dissected, 27. dissociation, 28. statisticians, 29. mumbo

30. 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
31. Children often _____ parents with this head cold.
- v.* to affect a person, an animal, or a plant with a disease-causing organism
32. After having a baby, women undergo _____ checkups to monitor their physical and emotional health.
- adj.* referring to the period following the birth of a child or to any event or process occurring during that period
33. The flashing lights at the concert triggered her _____ and caused a seizure.
- n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
34. The physician prescribed medication to relieve the contraction of the _____.
- n.* a hollow muscular organ in the body of a woman or other female mammal in which a baby or young animal develops before birth
35. The development of _____ has revolutionized the study of neurological disorders.
- n.* a cluster of cells that can be grown in a laboratory and that mimics certain features of the brain often used as a model for studying essential brain function or for drug development
36. The invention of the smartphone _____ the way we communicate with each other.
- v.* to bring about a complete or radical change in something, often through the introduction of new methods or ideas

ANSWERS: 30. incubator, 31. infect, 32. postnatal, 33. epilepsy, 34. uterus, 35. minibrains, 36. revolutionized

37. He _____ the article in his own words to avoid being accused of plagiarism.

- v. to restate or reword a passage in one's own words, often to clarify or simplify the original meaning

38. His son had accurately _____ the bloom.

- v. to illustrate someone or something in a photograph

39. He has a short _____.

- n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

ANSWERS: 37. paraphrased, 38. depicted, 39. fuse