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Vocabulary Builder Reference from...

Leila Pirhaji: The medical potential of AI and metabolites | TED Talk https://www.ted.com/talks/leila_pirhaji_the_medical_p otential_of_ai_and_metabolites



All Words

IMPORTANT

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Session 1: Word List

| sequence | a series of related events, actions, numbers, etc., which have a particular order onym: arrangement, succession, series the sequence of the seasons, (2) the DNA sequence e do move forward with those tasks in sequence next ek. | |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| genome | n. the complete set or sequence of genes of a human, animal, plant, or other living things (1) sequencing of the human genome, (2) genome analyses The human genome contains approximately three billion chemical base pairs. | |
| disease | <i>n</i>. a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems <i>synonym</i>: illness, ailment, affliction (1) disease prevention, (2) disease control The doctor diagnosed him with a rare disease that had no known cure. | |

| 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. |
| 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. |
| 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. |
| fatty | adj. containing a lot of fat synonym: greasy, oily |
| | (1) less fatty meat, (2) fatty acid |
| | You should keep away from fatty foods. |
| 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. |
| 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. | | |
| therapeutic | <i>adj.</i> relating to or involved in the treatment of illness or injury <i>synonym</i> : healing, remedial, curative | | |
| | (1) therapeutic massage, (2) therapeutic administration | | |
| | Yoga is known to have therapeutic benefits for the mind and body. | | |
| molecule | <i>n.</i> 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. | | |
| metabolite | n. a substance produced by metabolic processes in living organisms, especially those that are essential for normal physiological functions synonym: intermediate | | |
| | (1) metabolite concentration, (2) drug metabolite | | |
| | The liver metabolite levels were higher than usual. | | |
| glucose | n. a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things synonym: sugar, blood sugar | | |
| | (1) blood glucose test, (2) glucose level | | |
| | The doctor injected glucose into his patient's veins. | | |
| fructose | n. a simple sugar that is found in many fruits and vegetables and is about twice as sweet as sucrose synonym: fruit sugar, levulose, laevulose | | |
| | (1) fructose content, (2) heredity fructose intolerance | | |
| | High fructose corn syrup is a common ingredient in processed foods. | | |

| cholesterol | n. a type of fat that is found in the blood and cells of the body and that is important for many bodily functions but can also contribute to heart disease and stroke when levels are too high synonym: fat, lipid, sterol |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | (1) cholesterol levels, (2) low cholesterol |
| | High levels of cholesterol can increase the risk of heart disease. |
| involve | v. to include or affect someone or something as a necessary part of something else synonym: implicate, include, engage |
| | (1) involve a lot of paperwork, (2) involve a high degree of risk |
| | The investigation involves several government agencies and is expected to take several months. |
| metabolism | <i>n.</i> the set of chemical reactions in cells or organisms that are necessary for life-sustaining |
| | (1) metabolism enzyme, (2) hemoglobin metabolism Better sleep leads to increased metabolism. |
| downstream | adv. in the direction that a stream or river flows; (adjective) in the direction of a stream's current synonym: lower, below, later |
| | (1) go downstream in a boat, (2) downstream processing |
| | The boat drifted downstream and was carried away by the current. |
| essential | <i>adj.</i> indispensable; fundamental <i>synonym</i> : critical, crucial, basic |
| | (1) essential amino acid, (2) essential commodities of life Trial and error is an essential part of education. |
| 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. | | |
| medical | <i>adj.</i> relating to the treatment of illness or injuries; relating to the practice of medicine<i>synonym</i>: health, disease, treatment | | |
| | (1) a medical opinion, (2) temporary medical treatment | | |
| | The medical team worked quickly to save the patient's life. | | |
| mathematics | n. the science dealing with the logic of quantities, shapes, spaces, and arrangement synonym: arithmetic, calculation, calculus | | |
| | (1) a good grounding in mathematics , (2) mathematics competition | | |
| | He has a flair for mathematics . | | |
| medicinal | <i>adj.</i> of or relating to the treatment or cure of disease <i>synonym</i> : curative, therapeutic, healing | | |
| | (1) medicinal chemistry, (2) traditional medicinal | | |
| | The medicinal properties of this herb have been known to help with various ailments. | | |
| algorithm | <i>n</i>. a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation <i>synonym</i>: logic, method, rule | | |
| | (1) the RSA algorithm, (2) algorithm for image processing | | |
| | We can evaluate the performance of an algorithm in terms of computation time. | | |
| analyze | v. to think about in-depth and evaluate to discover essential features or meaning | | |
| | synonym: explore, examine, investigate | | |
| | (1) analyze a chemical compound, (2) analyze your real motives | | |

The teacher attempted to **analyze** the root cause of our mistake.

| biology | <i>n.</i> 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. |
| intervene | v. to intentionally get involved in a situation to improve it or prevent it from getting worse synonym: interfere, mediate, intercede |
| | (1) intervene in a dispute, (2) intervene between quarreling parties |
| | Following international law, our country does not intervene in the internal affairs of our neighbors. |
| molecular | adj. of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) synonym: microscopic, atomic |
| | (1) molecular structure, (2) molecular biology |
| | Molecular weight is the sum of all the atoms. |
| mass | <i>n.</i> a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together |
| | synonym: abundance, crowd, mob |
| | (1) a mass of molten rock, (2) critical mass |
| | The mass of people who do not own property is politically impotent. |
| spectrometer | n. a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials synonym: spectroscope, analyzer, detector |
| | (1) spectrometer measurement, (2) optical spectrometer |

| | The infrared spectrometer helped identify the chemical composition of the sample. |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| instrument | n. an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work |
| | synonym: apparatus, tool, device |
| | (1) musical instruments , (2) surgical instruments |
| | This electronic instrument is required to undergo periodic inspections to ensure precision. |
| identify | v. to recognize someone or something and say or prove who or what they are |
| | synonym: determine, specify, recognize |
| | (1) identify handwriting, (2) identify gene sequences |
| | I will introduce you to how to identify the leading causes of the malfunction. |
| | |
| experiment | n. the scientific test conducted to observe what happens and gain new knowledge |
| | synonym: experimentation, investigation |
| | (1) experiment design, (2) series of experiments |
| | His experiments showed highly positive results. |
| intelligence | <i>n.</i> the ability to learn, comprehend, or make judgments or conclusions based on reasons |
| | synonym: brains, brightness, cleverness |
| | (1) an intelligence test, (2) field of artificial intelligence |
| | In terms of intelligence , he was head and shoulders above |
| | his classmates. |
| AI | n. (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation |

| | synonym: robot, machine learning, neural network (1) AI expert, (2) apply AI technology to art The evolution of processors has dramatically improved the performance of AI. |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| platform | n. the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed synonym: stage, podium, forum |
| | (1) an arrival platform , (2) a digital platform for enterprise |
| | The speaker mounted the platform and started to speak. |
| lever | n. a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily synonym: lifter, crowbar, bar |
| | (1) a gear change lever, (2) lever for reform |
| | This initiative will be a lever for increasing company sales. |
| database | n. a large amount of data stored in a computer system in such a way that it can be searched and updated easily |
| | (1) database administrator, (2) employee database Each country's officials can access the central database. |
| interaction | n. the act of connecting with someone, mainly when working, playing, or spending time with them synonym: dealings, exchange, relations |
| | (1) the interaction between man and his environment,(2) interaction among human beings |
| | The interaction of the two groups is good for brainstorming. |
| combine | v. to join or merge to form a single thing or group <i>synonym</i> : coalesce, cohere, blend |
| | (1) combine chemically with another substance,(2) combine augmented reality |

| | Hydrogen and oxygen combine to form water. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tissue | <i>n</i>. an ensemble of similar cells of the animal or plant that together carry out a specific function <i>synonym</i>: structure, texture, anatomy |
| | (1) a facial tissue , (2) loss of muscle tissue |
| | The researcher separated the nervous tissue for microscopic examinations. |
| mention | <i>v.</i> to speak or write about something or someone briefly <i>synonym</i> : reference, allude, cite |
| | (1) mention name, (2) mention in a report |
| | I mentioned to him that I had seen his sister at the grocery store earlier that day. |
| galactose | n. a simple sugar that is found in milk and dairy products and is an important component of lactose, also used in the production of certain types of biodegradable plastics synonym: sugar |
| | (1) consumption of galactose , (2) galactose metabolism People with galactose intolerance must avoid dairy products because their bodies cannot break down this sugar. |
| 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 . |
| ambiguity | n. the quality of being open to more than one interpretation; the uncertainty of meaning synonym: uncertainty, vagueness, obscurity |

| | (1) free from ambiguity , (2) avoid ambiguity in writing The ambiguity in the instructions made it difficult for her to complete the task. | | |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| infer | v. to form an opinion or conclude that something is true based on existing facts synonym: guess, deduce, assume | | |
| | (1) infer quality from price, (2) infer the possibility | | |
| | Animal desire and preference are always inferred from their behavior. | | |
| discovery | n. the act or process of finding information, a place, or an object, or learning about something that was previously not known | | |
| | synonym: finding, uncovering, detection | | |
| | a scientific discovery, (2) the great discovery of the century | | |
| | Her research team made an important discovery. | | |
| novel | an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before | | |
| | synonym: fiction, story, (adjective) innovative | | |
| | (1) historical novel , (2) novel effect | | |
| | The novel has largely gotten positive feedback. | | |
| mechanism | <i>n</i>. a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction <i>synonym</i>: means, method, system | | |
| | (1) the mechanism for DNA replication, (2) defense mechanism | | |
| | He discovered unique mechanisms for photochemical reactions. | | |
| start-up | <i>n.</i> a newly established company or business | | |

| | (1) start-up business, (2) early-stage start-up |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Our company's services are targeted at start-up executives. |
| accumulation | <i>n.</i> an amount of something obtained via natural growth or addition |
| | synonym: accretion, pileup, upsurge |
| | (1) accumulation of wealth, (2) accumulation effect |
| | Accumulation of fuel discounts is common practice among many retailers. |
| epidemic | n. the widespread outbreak of a particular disease in a large number of people at the same time synonym: outbreak, contagion, plague |
| | (1) a worldwide epidemic , (2) health epidemic |
| | The disease is now reaching epidemic proportions in our country. |
| moving | <i>adj.</i> causing strong emotions or feelings, especially sadness or sympathy<i>synonym</i>: emotional, poignant, touching |
| | (1) moving experience, (2) moving ceremony |
| | His moving speech about his struggles with addiction brought tears to the audience's eyes. |
| tackle | <i>v.</i> to try to deal with a complex problem or situation <i>synonym</i> : deal with, dive into, work on |
| | (1) tackle the issue, (2) help tackle climate change |
| | The government is determined to tackle sharp inflation. |
| vision | <i>n</i> . the ability to think about or see the future with imagination and intelligence; the faculty of being able to see |
| | synonym: sight, image, concept |
| | (1) a prodigious vision , (2) telescopic vision |
| | Driving is difficult for me because of my poor vision. |

Session 2: Spelling

| 1. | matcs competition | n. | the science dealing with the logic of quantities, shapes, spaces, and arrangement |
|-----|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 2. | chaotic envnt | n. | the natural world such as air, water, and land in which humans, animals, and plants live |
| 3. | heredity frse intolerance | n. | a simple sugar that is found in many fruits and vegetables and is about twice as sweet as sucrose |
| 4. | small moles | n. | a group of two or more atoms held together by attractive forces known as chemical bonds |
| 5. | nol effect | n. | an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before |
| 6. | field of artificial intnce | n. | the ability to learn, comprehend, or make judgments or conclusions based on reasons |
| 7. | esal amino acid | adj. | indispensable; fundamental |
| 8. | idfy handwriting | <i>v</i> . | to recognize someone or something and say or prove who or what they are |
| 9. | mog ceremony | adj. | causing strong emotions or feelings, especially sadness or sympathy |
| 10. | the great diry of the century | n. | the act or process of finding information, a place, or an object, or learning about something that was previously not known |

ANSWERS: 1. mathematics, 2. environment, 3. fructose, 4. molecule, 5. novel, 6. intelligence, 7. essential, 8. identify, 9. moving, 10. discovery

| 11. | the mesm for DNA replication | n. | a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction |
|-----|---------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. | a mel opinion | adj. | relating to the treatment of illness or injuries; relating to the practice of medicine |
| 13. | ine a high degree of risk | v. | to include or affect someone or something as a necessary part of something else |
| 14. | optical speter | n. | a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials |
| 15. | men name | v. | to speak or write about something or someone briefly |
| 16. | consumption of gase | n. | a simple sugar that is found in milk and dairy products and is an important component of lactose, also used in the production of certain types of biodegradable plastics |
| 17. | inne between quarreling parties | v. | to intentionally get involved in a situation to improve it or prevent it from getting worse |
| 18. | inne in a dispute | v. | to intentionally get involved in a situation to improve it or prevent it from getting worse |
| 19. | less fay meat | adj. | containing a lot of fat |
| 20. | fatty lir | n. | a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins |

ANSWERS: 11. mechanism, 12. medical, 13. involve, 14. spectrometer, 15. mention, 16. galactose, 17. intervene, 18. intervene, 19. fatty, 20. liver

| 21 int on among human boings | 10 | the act of connecting with someone, |
|------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 21. inton among human beings | n. | mainly when working, playing, or spending time with them |
| 22. die control | n. | a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems |
| 23. inr quality from price | v. | to form an opinion or conclude that something is true based on existing facts |
| 24. ane a chemical compound | <i>v</i> . | to think about in-depth and evaluate to discover essential features or meaning |
| 25. the sece of the seasons | n. | a series of related events, actions, numbers, etc., which have a particular order |
| 26. traditional meal | adj. | of or relating to the treatment or cure of disease |
| 27. envnt affairs | n. | the natural world such as air, water, and land in which humans, animals, and plants live |
| 28. ane your real motives | v. | to think about in-depth and evaluate to discover essential features or meaning |
| 29. a facial tie | n. | an ensemble of similar cells of the animal or plant that together carry out a specific function |
| 30. meal chemistry | adj. | of or relating to the treatment or cure of disease |
| 31. theic administration | adj. | relating to or involved in the treatment of illness or injury |

ANSWERS: 21. interaction, 22. disease, 23. infer, 24. analyze, 25. sequence, 26. medicinal, 27. environment, 28. analyze, 29. tissue, 30. medicinal, 31. therapeutic

| 32. | immune fuon | 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 |
|-----|----------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 33. | help tae climate change | v. | to try to deal with a complex problem or situation |
| 34. | mog experience | adj. | causing strong emotions or feelings, especially sadness or sympathy |
| 35. | chemical adon | n. | the act or process of adding something to something else; the process of adding numbers |
| 36. | an arrival plrm | n. | the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed |
| 37. | apply AI technology to art | n. | (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation |
| 38. | loss of muscle tie | n. | an ensemble of similar cells of the animal or plant that together carry out a specific function |

ANSWERS: 32. function, 33. tackle, 34. moving, 35. addition, 36. platform, 37. Al, 38. tissue

| 39. a gear change ler | n. | a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily |
|------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40. stup business | n. | a newly established company or business |
| 41. tae the issue | v. | to try to deal with a complex problem or situation |
| 42. early-stage stup | n. | a newly established company or business |
| 43. metsm enzyme | n. | the set of chemical reactions in cells or organisms that are necessary for life-sustaining |
| 44. dase administrator | n. | a large amount of data stored in a computer system in such a way that it can be searched and updated easily |
| 45. car 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 |
| 46. telescopic vin | n. | the ability to think about or see the future with imagination and intelligence; the faculty of being able to see |
| 47. ler for reform | n. | a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily |
| 48. hemoglobin metsm | n. | the set of chemical reactions in cells or organisms that are necessary for life-sustaining |

ANSWERS: 39. lever, 40. start-up, 41. tackle, 42. start-up, 43. metabolism, 44. database, 45. cancer, 46. vision, 47. lever, 48. metabolism

| 49. men in a report | ν. | to speak or write about something or someone briefly |
|------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 50. go dowam in a boat | adv. | in the direction that a stream or river flows; (adjective) in the direction of a stream's current |
| 51. theic massage | adj. | relating to or involved in the treatment of illness or injury |
| 52. expnt design | n. | the scientific test conducted to observe what happens and gain new knowledge |
| 53. a scientific diry | n. | the act or process of finding information, a place, or an object, or learning about something that was previously not known |
| 54. low chool | n. | a type of fat that is found in the blood and cells of the body and that is important for many bodily functions but can also contribute to heart disease and stroke when levels are too high |
| 55. gee analyses | n. | the complete set or sequence of genes of a human, animal, plant, or other living things |
| 56. fuon properly | n. | the purpose or use of an object, system, or process; a particular activity or operation that is designed to serve a specific purpose; a mathematical concept that describes a relationship between two sets of values, called the input and output sets; (verb) to operate or work in a specific way, or to perform a particular task or purpose |

ANSWERS: 49. mention, 50. downstream, 51. therapeutic, 52. experiment, 53. discovery, 54. cholesterol, 55. genome, 56. function

| 57. coe chemically with another substance | v. | to join or merge to form a single thing or group |
|-------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 58. moar biology | adj. | of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) |
| 59. cell and molecular biy | n. | the scientific study of life and the natural processes of living things |
| 60. dep a strategy | ν. | 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 |
| 61. temporary meI treatment | adj. | relating to the treatment of illness or injuries; relating to the practice of medicine |
| 62. accion effect | n. | an amount of something obtained via natural growth or addition |
| 63. the DNA sece | n. | a series of related events, actions, numbers, etc., which have a particular order |
| 64. mole behavior | n. | a group of two or more atoms held together by attractive forces known as chemical bonds |
| 65. critical m_s | n. | a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together |

ANSWERS: 57. combine, 58. molecular, 59. biology, 60. develop, 61. medical, 62. accumulation, 63. sequence, 64. molecule, 65. mass

| 66. accion of wealth | <i>n.</i> an amount of something obtained via natural growth or addition |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 67. a ms of molten rock | n. a large amount of a substance with r definite shape or form; a large numb of people or things grouped or crowo together |
| 68. fay acid | adj. containing a lot of fat |
| 69. health epic | n. the widespread outbreak of a particul disease in a large number of people the same time |
| 70. coe augmented reality | v. to join or merge to form a single thin group |
| 71. pat with weight loss | n. a person who is receiving medical treatment, care, or attention from a healthcare professional, such as a doctor, nurse, or therapist; a personal quality or characteristic |
| 72. musical insnts | an object used to make musical source such as a piano, guitar, or drum; a to or device used for a specific activity, particularly in specialist or scientific work |
| 73. inr the possibility | v. to form an opinion or conclude that something is true based on existing facts |
| 74. a worldwide epic | n. the widespread outbreak of a particular disease in a large number of people the same time |
| 75. dowam processing | <i>adv.</i> in the direction that a stream or river flows; (adjective) in the direction of a stream's current |

ANSWERS: 66. accumulation, 67. mass, 68. fatty, 69. epidemic, 70. combine, 71. patient, 72. instrument, 73. infer, 74. epidemic, 75. downstream

| 76. car 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 |
|-------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 77. adon of vectors | n. | the act or process of adding something to something else; the process of adding numbers |
| 78. pat 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 |
| 79. ine a lot of paperwork | ν. | to include or affect someone or something as a necessary part of something else |
| 80. defense mesm | n. | a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction |
| 81. Al expert | n. | (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation |
| 82. alhm for image processing | g <i>n</i> . | a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation |

ANSWERS: 76. cancer, 77. addition, 78. patient, 79. involve, 80. mechanism, 81. Al, 82. algorithm

| 83. employee dase | n. | a large amount of data stored in a computer system in such a way that it can be searched and updated easily |
|-----------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 84. the inton between man and his environment | n. | the act of connecting with someone, mainly when working, playing, or spending time with them |
| 85. sequencing of the human gee | n. | the complete set or sequence of genes of a human, animal, plant, or other living things |
| 86. die prevention | n. | a disorder or illness that affects the body or mind, often characterized by specific symptoms or abnormal functioning of organs or systems |
| 87. gase metabolism | n. | a simple sugar that is found in milk and dairy products and is an important component of lactose, also used in the production of certain types of biodegradable plastics |
| 88. evolutionary biy | n. | the scientific study of life and the natural processes of living things |
| 89. a digital plrm for enterprise | n. | the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed |
| 90. a good grounding in matcs | n. | the science dealing with the logic of quantities, shapes, spaces, and arrangement |
| 91. lir disease | n. | a large organ in the body, involved in many metabolic processes, such as detoxification of the organism, and the synthesis of proteins |

ANSWERS: 83. database, 84. interaction, 85. genome, 86. disease, 87. galactose, 88. biology, 89. platform, 90. mathematics, 91. liver

| 92. | mette concentration | n. | a substance produced by metabolic processes in living organisms, especially those that are essential for normal physiological functions |
|-----|-----------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 93. | gle level | n. | a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things |
| 94. | idfy gene sequences | v. | to recognize someone or something and say or prove who or what they are |
| 95. | avoid amty in writing | n. | the quality of being open to more than one interpretation; the uncertainty of meaning |
| 96. | the RSA alhm | n. | a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation |
| 97. | moar structure | adj. | of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds) |
| 98. | historical nol | n. | an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before |
| 99. | frse content | n. | a simple sugar that is found in many fruits and vegetables and is about twice as sweet as sucrose |
| 100 |). free from amty | n. | the quality of being open to more than one interpretation; the uncertainty of meaning |
| 101 | l. dep 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 |

ANSWERS: 92. metabolite, 93. glucose, 94. identify, 95. ambiguity, 96. algorithm, 97. molecular, 98. novel, 99. fructose, 100. ambiguity, 101. develop

| 102. chool levels | n. | a type of fat that is found in the blood and cells of the body and that is important for many bodily functions but can also contribute to heart disease and stroke when levels are too high |
|-------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 103. blood gle test | n. | a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things |
| 104. esal commodities of life | adj. | indispensable; fundamental |
| 105. a prodigious vin | n. | the ability to think about or see the future with imagination and intelligence; the faculty of being able to see |
| 106. drug mette | n. | a substance produced by metabolic processes in living organisms, especially those that are essential for normal physiological functions |
| 107. surgical insnts | n. | an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work |
| 108. speter measurement | n. | a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials |
| 109. series of expnts | n. | the scientific test conducted to observe what happens and gain new knowledge |
| 110. an intnce test | n. | the ability to learn, comprehend, or make judgments or conclusions based on reasons |

ANSWERS: 102. cholesterol, 103. glucose, 104. essential, 105. vision, 106. metabolite, 107. instrument, 108. spectrometer, 109. experiment, 110. intelligence

ANSWERS:

Session 3: Fill in the Blanks

- 1. 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
- 2. His ______ speech about his struggles with addiction brought tears to the audience's eyes.
- *adj.* causing strong emotions or feelings, especially sadness or sympathy
- 3. The speaker mounted the _____ and started to speak.
- *n.* the raised flat space close to the track at a train station where passengers get on or off the train; (technology) a computational or digital environment in which a piece of software is executed
- 4. Hydrogen and oxygen _____ to form water.
- v. to join or merge to form a single thing or group
- 5. The investigation ______ several government agencies and is expected to take several months.
 - *v.* to include or affect someone or something as a necessary part of something else
- 6. Better sleep leads to increased _____.
- *n.* the set of chemical reactions in cells or organisms that are necessary for life-sustaining
- 7. The _____ of people who do not own property is politically impotent.
- *n.* a large amount of a substance with no definite shape or form; a large number of people or things grouped or crowded together

ANSWERS: 1. disease, 2. moving, 3. platform, 4. combine, 5. involves, 6. metabolism, 7. mass

- 8. 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
- 9. High ______ corn syrup is a common ingredient in processed foods.
- *n*. a simple sugar that is found in many fruits and vegetables and is about twice as sweet as sucrose
- 10. 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
- 11. He discovered unique ______ for photochemical reactions.
- *n.* a part of a machine, or a set of parts that performs a task; a natural or established process that occurs during a specific situation or reaction
- 12. Our company's services are targeted at ______ executives.
- *n.* a newly established company or business
- 13. The boat drifted ______ and was carried away by the current.
- *adv.* in the direction that a stream or river flows; (adjective) in the direction of a stream's current
- 14. This initiative will be a _____ for increasing company sales.
- *n.* a handle used to operate a vehicle or a machine; a rigid bar resting on a pivot so that one end of it can be pushed or pulled easily
- 15. The ______ team worked quickly to save the patient's life.
- *adj.* relating to the treatment of illness or injuries; relating to the practice of medicine

ANSWERS: 8. tissue, 9. fructose, 10. biology, 11. mechanisms, 12. start-up, 13. downstream, 14. lever, 15. medical

- 16. I _______ to him that I had seen his sister at the grocery store earlier that day.
- v. to speak or write about something or someone briefly
- 17. I will introduce you to how to ______ the leading causes of the malfunction.
- *v.* to recognize someone or something and say or prove who or what they are
- 18. Animal desire and preference are always ______ from their behavior.
- *v.* to form an opinion or conclude that something is true based on existing facts
- 19. The ______ of the two groups is good for brainstorming.
- *n*. the act of connecting with someone, mainly when working, playing, or spending time with them
- 20. Following international law, our country does not ______ in the internal affairs of our neighbors.
- *v.* to intentionally get involved in a situation to improve it or prevent it from getting worse
- 21. The teacher attempted to ______ the root cause of our mistake.
- v. to think about in-depth and evaluate to discover essential features or meaning
- 22. He has a flair for _____.
 - *n.* the science dealing with the logic of quantities, shapes, spaces, and arrangement
- 23. 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

ANSWERS: 16. mentioned, 17. identify, 18. inferred, 19. interaction, 20. intervene, 21. analyze, 22. mathematics, 23. develop

- 24. Trial and error is an _____ part of education.
- *adj.* indispensable; fundamental
- 25. ______ of fuel discounts is common practice among many retailers.
- *n.* an amount of something obtained via natural growth or addition
- 26. 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
- 27. The evolution of processors has dramatically improved the performance of ____.
 - *n.* (abbreviation for artificial intelligence) the theory and development of computer systems capable of doing activities that would ordinarily need human intelligence, such as object recognition, speech recognition, decision-making, and language translation
- 28. 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
- 29. His ______ showed highly positive results.
- *n.* the scientific test conducted to observe what happens and gain new knowledge
- 30. The human ______ contains approximately three billion chemical base pairs.
- *n.* the complete set or sequence of genes of a human, animal, plant, or other living things
- 31. The _____ has largely gotten positive feedback.
- *n.* an extended fictional work in prose; usually in the form of a story; (adjective) original and of a kind not seen before

ANSWERS: 24. essential, 25. Accumulation, 26. cancer, 27. AI, 28. environment, 29. experiments, 30. genome, 31. novel

- 32. We can evaluate the performance of an _____ in terms of computation time.
- *n.* a set of rules or rigorous instructions typically used to solve a specific problem or to perform a computation
- 33. Each country's officials can access the central _____.
- *n.* a large amount of data stored in a computer system in such a way that it can be searched and updated easily
- 34. In ______ private corporations provide healthcare services.
- *n.* the act or process of adding something to something else; the process of adding numbers
- 35. In terms of ______ he was head and shoulders above his classmates.
- *n.* the ability to learn, comprehend, or make judgments or conclusions based on reasons
- 36. We do move forward with those tasks in _____ next week.
- *n.* a series of related events, actions, numbers, etc., which have a particular order
- 37. 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
- 38. High levels of ______ can increase the risk of heart disease.
- *n*. a type of fat that is found in the blood and cells of the body and that is important for many bodily functions but can also contribute to heart disease and stroke when levels are too high

ANSWERS: 32. algorithm, 33. database, 34. addition, 35. intelligence, 36. sequence, 37. patient's, 38. cholesterol

- 39. Yoga is known to have ______ benefits for the mind and body.
 - *adj.* relating to or involved in the treatment of illness or injury
- 40. The ______ properties of this herb have been known to help with various ailments.
- adj. of or relating to the treatment or cure of disease
- 41. The ______ in the instructions made it difficult for her to complete the task.
- *n.* the quality of being open to more than one interpretation; the uncertainty of meaning
- 42. The liver _____ levels were higher than usual.
- *n.* a substance produced by metabolic processes in living organisms, especially those that are essential for normal physiological functions
- 43. 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
- 44. The doctor injected _____ into his patient's veins.
- *n*. a type of sugar that is found in plants, especially fruit, and is an essential energy source in living things
- 45. The disease is now reaching ______ proportions in our country.
- *n.* the widespread outbreak of a particular disease in a large number of people at the same time
- 46. Her research team made an important _____.
- *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known

ANSWERS: 39. therapeutic, 40. medicinal, 41. ambiguity, 42. metabolite, 43. liver, 44. glucose, 45. epidemic, 46. discovery

- 47. _____ weight is the sum of all the atoms.
- *adj.* of or relating to molecules (= a group of two or more atoms held together by attractive forces known as chemical bonds)
- 48. 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
- 49. The government is determined to _____ sharp inflation.
 - v. to try to deal with a complex problem or situation
- 50. You should keep away from _____ foods.
- *adj.* containing a lot of fat
- 51. 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
- 52. This electronic ______ is required to undergo periodic inspections to ensure precision.
- *n.* an object used to make musical sounds, such as a piano, guitar, or drum; a tool or device used for a specific activity, particularly in specialist or scientific work
- 53. People with ______ intolerance must avoid dairy products because their bodies cannot break down this sugar.
- *n.* a simple sugar that is found in milk and dairy products and is an important component of lactose, also used in the production of certain types of biodegradable plastics

ANSWERS: 47. Molecular, 48. function, 49. tackle, 50. fatty, 51. molecule, 52. instrument, 53. galactose

- 54. Driving is difficult for me because of my poor _____.
 - *n.* the ability to think about or see the future with imagination and intelligence; the faculty of being able to see
- 55. The infrared ______ helped identify the chemical composition of the sample.
- *n.* a scientific device used to measure the properties of light or other radiation, often used in chemistry and physics to analyze the composition of materials

ANSWERS: 54. vision, 55. spectrometer