

Part 6 General Education (150 Items)

1. Which of the following statements is definitely true about the nature of science?
 - a. Science will help make the world a better place to live in.
 - b. Science can always uncover the truth in the realm of nature.
 - c. Scientific work requires a dedication that excludes the lives of people in other fields of work.
 - d. Theories in science can be disproved by testing: a well established theory can be demolished with a single observation.
2. Which of the following processes is best associated with technology than with science?
 - a. designing for a need
 - b. uncovering natural phenomena
 - c. discovering the nature of matter
 - d. constructing concepts, principles and laws
3. Which of the following statements best describes the connection between science and technology?
 - a. Scientist use the laws and principles discovered by technologists.
 - b. Technology is the part of science that deals with mechanical problems.
 - c. Technology involves the practical applications of scientific knowledge.
 - d. Science depends on technology for ideas and the organization of experimental work.
4. Which of the following is a technological concept rather than a scientific concept?
 - a. Tungsten has a high melting point.
 - b. Metals are good conductors of heat.
 - c. Resistance is inversely proportional to current.
 - d. Fluorescent lamps are improved through methods of manufacturing.
5. You want to add exactly 35.00 g of salt to a solution. What instrument must you use to measure this amount?
 - a. beaker
 - b. thermometer
 - c. graduated cylinder
 - d. triple beam balance
6. Young people stand straight. Very old ones usually stoop. Why?
 - a. Sedentary lives of the old.
 - b. Habit of stooping developed in the old.
 - c. Greater gravitational pull on the old than on the young.
 - d. Bones of the old have become weak and soft and their joints become loose.
7. Why is it not quite possible for viruses to live and multiply in the outer layers of our skin?
 - a. The outer layer of the skin has dead cells only.
 - b. The outer layer of the skin has oil which is harmful to viruses.
 - c. The outer layer of the skin has a lower temperature unsuitable for viruses.
 - d. The outer layer of the skin has salt from perspiration which is harmful to viruses.

8. Alcohol thermometer works on the principle that
 - a. Volume usually increases with pressure.
 - b. Temperature usually increases with density.
 - c. Volume usually increases with temperature.
 - d. Temperature usually increases with pressure
9. Which of the following is an important factor in explaining why seasons occur?
 - a. Earth's axis is tilted.
 - b. The sun's axis is tilted.
 - c. Earth rotates on its axis.
 - d. The sun rotates on its axis.
10. To preserve the fertility of the soil, farmer should employ the following except
 - a. strip cropping
 - b. continuous farming
 - c. terracing
 - d. contour farming
11. How can the presence of a person afflicted with HIV and/or AIDS be handled?
 - a. Discreetly reporting the case to health authorities.
 - b. Conducting home forum to discuss the identification of AIDS cases.
 - c. Avoid and discourage patronage of places frequented by these persons.
 - d. Discourage the establishment of recreation centers like cabarets and discos.
12. The following describe chemical change except
 - a. A chemical change takes place when a solid is changed to liquid then changed to gas
 - b. For a chemical change to take place, heat, light, or electricity is either needed or given off.
 - c. Some examples of chemical change are souring of milk, ripening of fruit, and digestion of food.
 - d. In a chemical change, a new substance is formed, with chemical properties that are different from, the original substance
13. Where do we trace the El Nino phenomenon?
 - a. rising ocean levels
 - b. very severe earthquakes
 - c. annual changes in seasons
 - d. thinning or depletion of the ozone layer
14. Why does the greenhouse effect result to warmer temperature near the earth's surface?
 - a. clouds trap infrared radiation
 - b. soil absorbs incoming radiation
 - c. ozone traps ultraviolet radiation
 - d. carbon dioxide traps infrared radiation
15. Why do people feel warmer just before it rains?
 - a. Heat released by the condensation of water vapor.
 - b. The clouds prevent heat from escaping the earth.
 - c. The increased relative humidity makes them feel warmer.
 - d. The warming is due to the heat absorbed by the evaporation of water.
16. A good method to prevent soil from being eroded from a hill is to
 - a. irrigate the area
 - b. plow the hill regularly
 - c. plant only ion alternate layers

- d. Plant the hill with grass or tree
17. The possible interconnected feeding relationships among organisms in an ecosystem are termed
- Food pyramid
 - Food web
 - Food chain
 - Food groups
18. Two beakers contain boiling water. Beaker A has a volume of 150 mL while beaker B has a volume of 600 mL. Which of the following statements is true?
- Both beakers are at equal temperatures.
 - Both beakers have the same thermal energy.
 - Beaker A has more thermal energy than beaker B.
 - Beaker A has a higher temperature than beaker B.
19. On the ground, Francis weighs 500n. Aboard flying at an elevation of 1500 m, what would his mass be?
- 5 kg
 - 50 kg
 - 100 kg
 - 150 kg
20. How will you classify the statement "The earth's outer core is a liquid."?
- a law
 - a theory
 - an inference
 - an observation
21. To save fuel it is advisable to keep your pot tightly closed while cooking. This prevents
- escape of nutrients
 - escape of steam, thus built up pressure
 - escape of substances which tenderize the food.
 - escape of vapor which increases the boiling point.
22. Not all organisms are harmful. Which of these is done by yeast?
- encourage disease food
 - cause Yakult to be milky
 - cause milk to become cheese
 - Promotes the rising of bread for baking
23. Which of the following organisms is used to convert milk to cheese?
- bacteria
 - protozoa
 - viruses
 - algae
24. Why do mountain climbers use oxygen equipment at the top of high mountains?
- There is a hole in the ozone layer.
 - There is less oxygen in the air at great heights
 - There is less nitrogen in the air at great heights.
 - There is no air on top of very high mountains.
25. War experts use energy in its discovery of nuclear bombs. When energy is released from a nuclear fission, what occurs?
- Atoms are split into fragments.
 - Energy is released from fission.
 - Decrease in mass nuclear bombs.
 - The energy possessed is used for bombing nations.
26. Which of the following alternative sources of energy could result to acid rain?
- solar
 - biogas
 - geothermal
 - nuclear energy

27. Which of the following is predicted to be the result of global warming?
- rising ocean level
 - thinning of ozone layer
 - more severe earthquakes
 - larger volcanic eruptions
28. Billy is one student who tries his best to submit laboratory reports, projects, and other requirements on time. Which of the following scientific attitudes does Billy possess?
- Patience
 - responsibility
 - open-mindedness
 - honesty
29. A manager of a textile company said it is too expensive to treat liquid wastes so he suggested digging hole near the factory where the wastes can be stored. Is this environmentally safe?
- No, the liquid can be recycled.
 - No, the liquid waste will seep to the ground water.
 - Yes, the liquid wastes will be less hazardous with time.
 - Yes, the liquid will pass through layers of soil and becomes clean.
30. The air in Metro Manila is now heavily polluted with carbon dioxide and lead dust from the motor vehicles, factories, and restaurants. As a citizen, you will minimize pollution by following all the following practices except
- Bury garbage rather than burning it.
 - Burning garbage in your own backyard.
 - Participate actively in government's tree planting project.
 - Help disseminate information regarding the advantages of using anti-pollution devices for motor vehicles
31. Insecticides are used to control insect populations so that they do not destroy crops. However, over time, a new insecticide has to be developed as they become less effective in killing the insects. Why?
- Insecticides build up in the soil.
 - Insecticides are concentrated at the bottom of the food chain.
 - Surviving insects pass their resistance to insecticides to their offsprings.
 - Surviving insects have learned to include insecticides as a food source.
32. Why do fishermen catch more fish during the new moon than during the full moon?
- Fishes look for mates during the new moon
 - Fishes are attracted to the light from the fishing boat
 - Fishes go near the water surface during new moon because the water is warmer.
 - Fishes are more active during new moon because the salt content of water is just right.
33. In one of his investigations, Alexander Fleming noticed that bacteria growing on agar did not grow next to a mold that was growing on the same plate.

He wrote in his report, "The mold may be producing a substance that kills bacteria." The statement is best described as

- a. a conclusion
- b. a hypothesis
- c. an observation
- d. a generalization

34. Which of the following is the primary reason why scientists repeat measurements they take during experiments?

- a. To list all the results in a table
- b. To estimate experimental error
- c. To check if the equipment is working.
- d. To change the experimental conditions.

35. When scientists investigate, it is said that they follow the scientific method. How will you logically arranged the essential steps in the scientific method?

- 1. make a hypothesis
- 2. recognize the problem
- 3. formulate the simplest generalization
- 4. perform experiments to test the prediction
- 5. predict the consequences of the hypothesis

- a. 1,4,2,3,5
- b. 2, 1, 5, 4, 3
- c.2,5,1,3,4
- d. 3, 2, 1, 4, 5

36. Which of the following factors contribute to "greenhouse effect"?

- a. destruction of the forests
- b. use of carbon dioxide by land plants
- c. depletion of minerals in the soil by overfarming
- d. use of solar glass panels to capture radiant energy

37. All interacting units of matter tends to move toward a state in which energy content is a minimum, and the energy distribution is most random. In the process of attaining this state, energy matter and energy-matter transformations occur. This scheme is governed by all of the following concepts except

- a. conservation
- b. equilibrium
- c. homeostasis
- d. isostasy

38. Matter exists in the form of units which can be classified in hierarchies or organizational levels. Which of the following units show a correct hierarchical organization?

- a. atom — molecule — element — compound — mixture
- b. cell — tissue — organ — system — organism
- c. solids — liquids — gases — plasma
- d. protons — neutrons — electrons — ion

39. Which of the following statements is not true of energy in the biosphere?

- a. Energy flows a one — way path.
- b. Energy is conserved in the biosphere.
- c. Energy follows a cycle through the web of life.
- d. Energy leaves the living system in the form of heat.

40. Electrical energy is used to power a light bulb. How does the amount of electrical energy used to compare to the amount of light energy produced?

- a. less than the amount of light energy produced.
- b. more than the amount of light energy produced.
- c. the same as the amount of light energy produced

d. depends on the wattage produced by the light bulb

41. The following statements are ideas about the environment. Which one is false?

- a. Clear water is clean water.
- b. Plants help clean the air of harmful gases.
- c. It takes millions of years for crude oil to form.
- d. Fire can sometimes start by itself in a big pile of decaying garbage.

42. Ultrasound is often used by medical workers to obtain features of internal body parts. Infrasound on the other hand is commonly used in:

- a. monitoring conditions in pregnant women
- b. detecting harmful living tissues inside the body
- c. seismographic surveying of structures below the earth's surface
- d. providing moving pictures of tidal waves and earthquakes

43. A 12 cm red hot steel bar is placed into a pan of boiling water. Which statement correctly explains the resulting heat transfer?

- a. Heat flow out of the kettle to the cooler surrounding air.
- b. Heat flow from the water to the steel bar because boiling water has more thermal energy.
- c. Heat flows from the water to the steel bar since the water molecules have higher average kinetic energy.
- d. Heat flows from the water to the steel bar since the steal bar is at a higher temperature

44. Which of the following acid groups is found in vinegar?

- a. nitric acid
- b. acetic acid
- c. formic acid
- d. ascorbic acid

45. Which of the following forms of energy travels through empty space?

- a. chemical energy
- b. radiant energy
- c. sound energy
- d. all of them

46. Why do we see the sun rise in the east and set of the west?

- a. the earth rotates from west to east
- b. the earth revolves counterclockwise
- c. the earth revolves from west to east
- d. the sun rotates in a clockwise manner

47. All of the following are physical properties except

- a. sugar dissolves in water
- b. water evaporates from an open container
- c. moth balls sublime at room temperature
- d. butter turns rancid when left unrefrigerated

48. Colloids maybe dispersed in a gas, liquid, or solid. Which of the following colloidal systems show a liquid dispersed in a gas medium?

- a. clouds
- b. smoke
- c. paint
- d. beaten egg white

49. Which blood transfusion would agglutinate blood?

- a. A donor --> A recipient
- b. A donor --> 0 recipient

- c. A donor --> AB recipient
- d. O donor ---> AB recipient
- 50. All of the following compose the male reproductive organ of a flowering plant except
 - a. anther
 - b. pollen grain
 - c. stigma
 - d. stamen
- 51. Angiosperms are also known as
 - a. cone bearing
 - b. flower bearing
 - c. seed bearing
 - d. spore bearing
- 52. Tropical rainforests have many trees and other plants that photosynthesize. What happens when huge areas of tropical rain forests are destroyed?
 - a. Oxygen level increases and carbon dioxide level increases.
 - b. Oxygen level increases and carbon dioxide level decreases
 - c. Oxygen level decreases and carbon dioxide level increases
 - d. Oxygen level decreases and carbon dioxide level decreases
- 53. How is the conservation of mechanical energy described in a falling object?
 - a. A falling object loses kinetic energy and gains potential energy.
 - b. A falling object 'loses kinetic energy and loses potential energy.
 - c. A falling object gains kinetic energy and loses potential energy.
 - d. A falling object loses kinetic energy and loses potential energy
- 54. Which property of light accounts for the phenomenon of color?
 - a. wavelength
 - b. amplitude
 - c. velocity
 - d. intensity
- 55. In which rock layers are remains of aquatic organisms most commonly found?
 - a. Igneous
 - b. sedimentary
 - c. metamorphic
 - d. intrusive
- 56. Nights are cooler when the sky is clear than when it is overcast. Why is this so?
 - a. The sun is hidden from us at night.
 - b. Cooler air can hold less water vapor.
 - c. Rain falls when water vapor condenses above freezing point.
 - d. Heat from the lower atmosphere easily escapes when there is no cloud cover.
- 57. Two air masses have the same relative humidity. Which of the following can also be said about them?
 - a. they have the same volume
 - b. they have the same temperature
 - c. both have rain clouds
 - d. none of them
- 58. Which of the following phrases best describes adaptation of organisms?
 - a. thick covering to conserve water
 - b. fast movements to escape its enemies
 - c. blending of color so that it cannot be easily seen by its enemies

- d. structure or behavior of an organism to help it survive in its environment
- 59. At what stages in its life cycle is a butterfly most active?
 - a. egg and larva
 - b. pupa and adult
 - c. larva and adult
 - d. adult and egg
- 60. What type of solar radiation is effectively absorbed by the ozone layer of the earth's atmosphere?
 - a. infrared
 - b. ultraviolet
 - c. gamma
 - d. X — ray
- 61. We wear light clothes especially during summer because white
 - a. absorbs heat
 - b. disperses heat
 - c. reflects heat
 - d. refracts heat
- 62. Objects are visible because of the light they
 - a. reflect
 - b. absorb
 - c. diffuse
 - d. refract
- 63. It makes blue litmus paper turn red
 - a. salt
 - b. acid
 - c. base
 - d. water
- 64. Smelling a scent of perfume from a distance illustrates
 - a. cohesion
 - b. adhesion
 - c. diffusion
 - d. all of these
- 65. What is the weight of the man whose mass is 50 kg?
 - a. 50 N
 - b. 13. 50 kg
 - c. 490 N
 - d. 490 N
- 66. The motion of the moon around the earth is an example of
 - a. uniform motion
 - b. uniform circular motion
 - c. projectile motion
 - d. rectilinear motion
- 67. In a neutral atom, the number of protons is equal to the number of
 - a. electrons
 - b. neutrons
 - c. nucleons
 - d. all of these
- 68. The scientist who have said that an atom is mostly empty space with tiny positive core called the nucleus
 - a. Dalton
 - b. Thomson
 - c. Rutherford
 - d. Bohr
- 69. What process can efficiently separate alcohol from water?
 - a. distillation
 - b. decantation
 - c. filtration
 - d. chromatography
- 70. The constant temperature at which solid is changed in its liquid form
 - a. melting point
 - b. boiling point
 - c. dew point
- 71. Urine has a density of 1.02 g/mL. What is the volume of 25 g of urine?
 - a. 24.5 mL
 - b. 25.5 mL
 - c. 0.04 mL
 - d. 25.0 mL
- 72. Which of the following statements best describes a liquid?
 - a. It has definite shape
 - b. It has definite volume

- c. It expands to fill its container
- d. Its particles are tightly packed with each other
- 73. The movement of the solid part of the earth is called
 - a. diastrophism
 - b. faulting
 - c. earthquake
 - d. folding
- 74. The rocks that may have been formed from magma in volcanoes or from flowing lava are called
 - a. sedimentary rocks
 - b. metamorphic rocks
 - c. igneous rocks
 - d. minerals
- 75. The method of farming on the mountainsides to prevent erosion is called
 - a. crop rotation
 - b. contour farming
 - c. strip cropping
 - d. mountain farming
- 76. The process of breaking down rocks
 - a. erosion
 - b. volcanism
 - c. weathering
 - d. all of these
- 77. The upper part of lithosphere that contains various rock layers at different depths
 - a. crust
 - b. mantle
 - c. core
 - d. none of these
- 78. At night, the wind blows from the land to the sea. This is because the cool air over the land blows in to replace the warm air rising from the sea. This type of breeze is called
 - a. sea breeze
 - b. land breeze
 - c. both of them
 - d. none of them
- 79. The type of cloud that produces precipitation and is usually seen before it rains
 - a. cirrus
 - b. stratus
 - c. cumulus
 - d. nimbus
- 80. The condition of the atmosphere at any given time and place
 - a. weather
 - b. climate
 - c. season
 - d. none of them
- 81. It refers to the actual amount of water vapor present in the atmosphere
 - a. relative humidity
 - b. absolute humidity
 - c. both of them
- 82. Which layer of the atmosphere contains the ozone layer
 - a. troposphere
 - b. mesosphere
 - c. stratosphere
 - d. thermosphere
- 83. Who advocated the idea that all things are made up of four elements of fire, air, earth, and water?
 - a. Newton
 - b. Galileo
 - c. Aristotle
 - d. Einstein
- 84. How do solutions differ from compounds?
 - a. solutions are heterogeneous mixtures; compounds are homogeneous
 - b. solutions vary in composition; compounds have definite composition
 - c. solutions have definite composition; compounds vary in composition
 - d. solutions are formed in chemical reactions; compounds combine physically
- 85. Which part of the flower develops into seeds?

- a. pistil
- b. ovary
- c. ovule
- d. ovary wall
- 86. Copper is used for electrical wires because it is ductile. Which of the following describes ductility of metals?
 - a. the softness of metals
 - b. the hardness of metals
 - c. can be drawn into fine wires
 - d. can be hammered forming thin sheets
- 87. Why does air temperature usually decrease toward the poles?
 - a. there is plenty of ice near the poles
 - b. air generally moves toward the equator
 - c. cold air near the poles prevents heating of the land
 - d. areas near the poles receive less solar energy per unit area
- 88. Which energy changes take place in a flashlight with batteries?
 - a. chemical — electrical — light
 - b. electrical — light — chemical
 - c. light — chemical — electrical
 - d. chemical — light — electrical
- 89. A material that does not transmit light that strikes its surface is known as
 - a. opaque
 - b. transparent
 - c. translucent
- 90. The mechanism of heat transfer that is only possible in liquids and gases is called
 - a. conduction
 - b. convection
 - c. radiation
- 91. What is the process of changing solid to gas without passing the liquid state?
 - a. condensation
 - b. evaporation
 - c. sublimation
 - d. freezing
- 92. Sound that is heard louder than the others has a greater
 - a. pitch
 - b. frequency
 - c. frequency
 - d. amplitude
- 93. Why are shadows formed?
 - a. Light produces a dark area
 - b. light is dispersed in all directions
 - c. light travels in a straight line
 - d. light is scattered by a smooth surface
- 94. In a guitar, which string can produce a high pitch?
 - a. thin and long
 - b. thick and long
 - c. thin and short
 - d. thick and short
- 95. Which device can convert mechanical energy to electrical energy?
 - a. battery
 - b. generator
 - c. motor
 - d. photovoltaic cell
- 96. What is the force that opposes motion?
 - a. friction
 - b. tension
 - c. weight
 - d. normal force
- 97. Why are burns caused by steam more damaging than the one caused by boiling water?
 - a. Water has a higher temperature
 - b. Steam is a vapor of water molecules
 - c. Steam has more energy per kilogram
 - d. Steam is easily formed than boiling water

98. What happens when vapor condenses into a liquid?
- a. It absorbs heat
 - b. It releases heat
 - c. its temperature increases
 - d. its temperature decreases
99. What do you call sound with frequency that is below 20 Hz?
- a. supersonic
 - b. subsonic
 - c. infrasonic
 - d. ultrasonic
100. The separation of white light into colors of the spectrum is called
- a. scattering
 - b. dispersion
 - c. reflection
 - d. refraction
101. Which among the following is a non-renewable energy resource?
- a. wind energy
 - b. solar energy
 - c. fossil fuel
 - d. geothermal energy
102. Which element is not recycled throughout an ecosystem by the process of photosynthesis and respiration?
- a. carbon
 - b. nitrogen
 - c. oxygen
 - d. hydrogen
103. The gas that is most abundant in the air is
- a. oxygen
 - b. nitrogen
 - c. carbon dioxide
 - d. argon
104. The greatest source of indoor pollutant is
- a. smog
 - b. radon
 - c. CFCs
 - d. sunlight
105. All of the following are probable consequences of water related environmental problems except
- a. diarrhea
 - b. amoebiasis
 - c. typhoid fever
 - d. respiratory tract infection
106. Overdraft is an overuse of groundwater, which makes the reservoirs of groundwater emptied and very seldom replenished especially during the summer months. Which among the following environmental problems related to soil is the probable consequence of overdraft?
- a. soil pollution
 - b. land subsidence
 - c. soil erosion
 - d. deforestation
107. Plant nutrients such as nitrates and phosphates, which come from fertilizers and detergent, can cause algal bloom. What do you call the phenomenon on which a body of water which contains high concentrations of chemical elements required for life makes the produces bloom by directly nourishing most bacteria than aquatic organisms like fishes?
- a. eutrophication
 - b. biomagnification
 - c. soil water intrusion
108. Which of the following best describes a nonmetal?
- a. They are ductile and malleable
 - b. they have high tensile strength
 - c. they are good insulators
 - d. they are hard and brittle
109. Which is an example of a heterogeneous mixture?

- a. Distilled water
 - b. rubbing alcohol
 - c. Agua oxinada
 - d. concrete
110. Which of the following phase changes are exothermic?
- a. sublimation and melting
 - b. evaporation and condensation
 - c. condensation and freezing
 - d. evaporation and deposition
111. Which grouping is composed of pure substances only?
- a. Fog, dew, brine
 - b. -
 - c. -
 - d. ice, table salt, fog
112. Which of the following best describes a mixture?
- a. It is homogeneous
 - b. It has a definite composition
 - c. It changes the colors of common indicators
 - d. Its components are combined in any proportion
113. The state of matter that is characterized by strong attractive forces.
- a. solid
 - b. liquid
 - c. gas
 - d. plasma
114. The components of ink can best be separated using
- a. evaporation
 - b. filtration
 - c. centrifugation
 - d. Chromatography
115. All of the following are chemical properties except
- a. toxicity
 - b. corrosiveness
 - c. solubility
 - d. flammability
116. Which of the following statements is true?
- a. Light has mass
 - b. Air has volume
 - c. Heat occupies space
 - d. Sound has both mass and volume
117. Which of the following is an intensive physical property?
- a. mass
 - b. volume
 - c. color
 - d. length
118. When a pure crystalline yellowish substance is heated in vacuum, a greenish gas and a red powdery substance were produced. In which of the following will you classify the yellowish substance?
- a. Element
 - b. compound
 - c. mixture
 - d. pure substance
119. Isotopes are atoms that have the same atomic number but different mass numbers. It means also that isotopes are atoms that have
- a. the same number of electrons but different number of protons
 - b. the same number of neutrons but different number of electrons
 - c. the same number of protons but different number of neutrons
 - d. the same number of protons but different number of electrons
120. This electrically neutral particle was discovered

by Chadwick in 1932 with its mass slightly greater than that of proton?

- a. electron c. positron
- b. neutron d. neutrino

121.The spoilage of meat is delayed when kept in a refrigerator because the cold temperature

- a. keeps the flies/ insects away
- b. slows down the action of bacteria
- c. changes the color and odor of meat
- d. turns the water component of meat to ice

122.During chemical changes or chemical reactions, which particles are gained, lost, or shared?

- a. protons inside the nucleus
- b. neutrons inside the nucleus
- c. electrons in the outermost energy level
- d. electrons in the innermost energy level

123.Which of the following radiation has the highest penetrating power?

- a. alpha b. beta c. gamma

124.Which of the following statements explains why we feel cool after perspiring?

- a. vapor in the air condenses in our skin
- b. water coming out of our body is cold
- c. pores in our skin allow cool air to enter
- d. evaporating water in our skin produces a cooling effect

125.What is the most practical way to control pollution?

- a. decreasing the population
- b. more government control of industry
- c. careful planning of environmental usage
- d. slowing the rate of technological growth

126.Humans can cause rapid changes in the environment, sometimes producing catastrophic events. Which statement below is the best example of this concept?

- a. lightning causes forest fire
- b. shifting crustal plates cause an earthquake
- c. changing seasonal winds cause flooding in an area
- d. mountainside highway construction causes a landslide

127.How are latitude and longitude lines drawn?

- a. latitude lines are parallel and longitude lines meet at the poles
- b. latitude lines are parallel and longitude lines meet at the equator
- c. longitude lines are parallel and latitude lines meet at the poles
- d. longitude lines are parallel and latitude lines meet at the equator

128.The water part of the earth is also known as

- a. lithosphere c. atmosphere
- b. hydrosphere d. biosphere

129.The vibration of the earth's surface due to the release of stored energy when the deformed rock ruptures or returns to its original size and shape?

- a. earthquake c. faulting
- b. tsunami d. folding

130.What happens to a given mass of fluid if heat flow into it?

- a. It becomes denser
- b. It becomes less dense
- c. it becomes colder
- d. It becomes heavier

131.What happens when air is heated?

- a. It expands and it rises
- b. It expands and sinks
- c. It contracts and rises
- d. It contracts and sinks

132.What do you call the phenomenon wherein there is a marked increase in the earth's surface temperature associated with radiation being trapped by its atmosphere?

- a. Global warming c. El Niño
- b. Greenhouse effect d. La Niña

133.In the water cycle, which process is responsible for getting water into the atmosphere?

- a. Condensation c. sublimation
- b. evaporation d. melting

134.In majority of stars, the most common element is

- a. oxygen c. helium
- b. hydrogen d. nitrogen

135.The color of the hottest star is

- a. red c. yellow
- b. blue d. bluish white

136.If you want to cook boiled eggs while in the mountains you should

- a. use hotter flame
- b. boil the eggs for a longer time
- c. boil the eggs for a shorter time
- d. not boil the eggs, because the water temperature won't get hot enough to cook them

137.A metal lid could not be unscrewed from its glass jar. Which of the following is the best way to unscrew it from the jar?

- a. Invert the jar with the lid in a very hot water for a few seconds
- b. Invert the jar with the lid in a very cold water for a few seconds
- c. invert the jar with the lid in cold and then in hot water for a few seconds
- d. invert the jar with the lid in hot and then in cold water for a few seconds

138.It refers to the temperature at which the molecules have the lowest possible kinetic energy

- a. absolute zero c. boiling point
- b. melting point d. freezing point

139.Why does a piece of metal feel colder than a piece of wood at the same temperature

- a. metal is colder than wood
- b. metals allow heat to flow through them easily
- c. metals have higher specific heat than wood
- d. none of the above

140.What accounts for the cooling effect inside the refrigerator?

- a. the refrigerator is properly insulated

- b. vaporization of the refrigeration fluid
- c. compression of the refrigerant into liquid
- d. the motor converts electrical energy into thermal energy

141. What do you call animals that feed on both plant and meat?

- a. herbivores
- b. carnivores
- c. omnivores
- d. insectivores

142. After drinking dirty water, a student developed bloody diarrhea and liver problems in a few weeks later. Which of the following is the most likely cause of the disease?

- a. Paramecium
- b. dinoflagellates
- c. amoeba
- d. euglena

143. Chemical produced by some bacteria that can kill or weaken other bacteria

- a. antitoxins
- b. antibodies
- c. antibiotics
- d. antiseptic

144. When light travels from water to air, what happens to its speed?

- a. It increases
- b. It decreases
- c. It remains the same

145. In which medium can sound travel the fastest?

- a. wood
- b. water
- c. air
- d. metals

146. The sound produced by a piano differs from that of the violin even if both sounds have the same pitch and loudness because of

- a. frequency
- b. intensity
- c. overtones
- d. amplitude

147. What do you call type of mixture that scatters light passing through it?

- a. solution
- b. colloid
- c. suspension

148. Fleming is a scientist made famous due to his fortunate accidental discovery of penicillin. This is an example of

- a. scientific destiny
- b. serendipity
- c. medical truth
- d. hard work

149. Why is water considered a universal solvent?

- a. It has a high density
- b. It has a high specific heat
- c. It dissolves polar and non — polar substances
- d. It dissolve both polar and ionic substance

150. The study of matter with focus on motion, forces and energy?

- a. physics
- b. chemistry
- c. biology
- d. earth science

Part 6 General Education Answer Keys

1. A	54. A
2. A	55. B
3. C	56. D
4. D	57. D
5. D	58. D
6. D	59. C
7. A	60. B
8. C	61. C
9. A	62. A
10. B	63. B
11. A	64. C
12. A	65. D
13. C	66. B
14. D	67. A
15. A	68. C
16. D	69. A
17. B	70. A
18. A	71. A
19. B	72. B
20. C	73. A
21. D	74. C
22. d	75. B
23. A	76. C
24. C	77. A
25. A	78. B
26. d	79. D
27. A	80. A
28. A	81. B
29. B	82. C
30. B	83. C
31. C	84. B
32. B	85. C
33. B	86. C
34. B	87. D
35. B	88. A
36. A	89. A
37. D	90. B
38. b	91. C
39. C	92. D
40. B	93. C
41. A	94. C
42. C	95. B
43. D	96. A
44. B	97. C
45. B	98. B
46. C	99. C
47. D	100. B
48. A	101. C
49. B	102. –
50. C	103. B
51. B	104. B
52. D	105. D
53. C	106. B
	107. A

- 108. C
- 109. D
- 110. C
- 111. -
- 112. D
- 113. D
- 114. -
- 115. C
- 116. B
- 117. C
- 118. B
- 119. C
- 120. B
- 121. B
- 122. C
- 123. C
- 124. D
- 125. C
- 126. D
- 127. A
- 128. B
- 129. A
- 130. B
- 131. A
- 132. A
- 133. B
- 134. B
- 135. D
- 136. B
- 137. A
- 138. A
- 139. B
- 140. B
- 141. A
- 142. C
- 143. C
- 144. A
- 145. D
- 146. C
- 147. B
- 148. B
- 149. D
- 150. A