



$C_6H_{12}O_6$ $2NaCl = 2Na + Cl_2$ $\sqrt{a^2+b^2}$ $m=vp$ CaO $2H_2 + O_2$ $V=\pi r^2 h$ $\sqrt{x-y}$

QUIZ

SCIENCE

2023-24















G-VI



- 1 Stomata close when guard cell:
a. Lose water b. Gain water c. Become turgid
- 2 There are _____ methods of transmission of heat.
a. 1 b. 2 c. 3 d. 4
- 3 Which types of muscles are responsible for bird's wings flapping?
a. Skeletal muscles b. Cardiac muscles c. Epithelial muscles
- 4 The movement of water from a dilute solution to concentrated solution through a membrane is called as
a. Diffusion b. Osmosis c. Active transport
- 5 The tissue that carries water and dissolved salts to the upper part of the root:
a. Xylem b. Phloem c. Root
- 6 Guard cells belong to
a. Stomata b. Cortex c. Endodermis
- 7 Ice is an:
a. Good conductor b. Bad conductor c. Perfect Conductor d. None
- 8 Plasma is generally a very
a. Good conductor b. Bad conductor c. Non conductor
- 9 The freezing point of water is:
a. 50 C b. 150 C c. 00 C d. 1000 C
- 10 Biodiversity provides:
a. Food b. Habitat c. Food and Habitat both
- 11 Transmission of heat by waves without affecting medium on its way:
a. Conduction b. Convection c. Radiation d. All of above
- 12 If a car is moving with uniform speed in a circle then its velocity will be:
a. Uniform b. Variable c. Zero d. None of the above
- 13 The physical quantity that has both magnitude and direction is known as
a. Vectors b. Scalars c. Both(a) and (b) d. Neither (a) or (b)



- 14  The atmospheric condition of a particular place at a particular point of time is called
 a. Climate **b. Weather** c. Temperature
- 15  The molecules of _____ have strongest intermolecular forces.
 a. Solid b. Liquid c. Gasses d. Plasma
- 16  The plasma membrane does not contain _____.
 a. Protein b. Lipids **c. DNA**
- 17  A scientific theory has which of the following properties?
 a. **It agrees with available evidence** b. It cannot be rejected c. It has been absolutely proven
- 18  Which of the following is true when a Mango falls from a Mango Tree?
 a. Only the Earth attracts the Mango. b. Only the Mango attracts the Earth. **c. Both Mango and Earth attract each other** d. Both Mango and Earth repel each other
- 19  Unicellular is:
 a. Rabbit b. Cat **c. Euglena** d. None of these
- 20  The largest artery is called:
 a. **Aorta** b. Renal artery c. Hepatic artery
- 21  _____ is a process of transfer of heat by the actual movement of the medium particles.
 a. Conduction **b. Convection** c. Radiation d. All of above
- 22  Unit of Energy in System International is:
 a. Watt **b. Joule** c. Newton d. Coulomb
- 23  For work to be done, there are _____ main conditions to be satisfied.
 a. 1 **b. 2** c. 3 d. 4
- 24  If a body is at a depth of 'h' from the liquid surface of density 'ρ', then the pressure 'P' on that body is:
 a. $P = w/t$ b. $P = \rho gV$ **c. $P = \rho gh$** d. $P = F/a$
- 25  In NaCl the element Na is:
 a. **Reducing agent** b. Oxidizing agent c. Polarizing agent





- 26 When temperature of the gas increases, gas pressure _____:
- a. **Increases** b. Decreases c. Remains same d. None of above
- 27 Anode is _____ charged.
- a. **Positively** b. Negatively c. Neutral
- 28 Sound does not need a medium to propagate.
- a. TRUE b. **FALSE**
- 29 How many types of cells are there in the human body?
- a. 50 b. 100 c. **200**
- 30 Rocket use _____ gas for fuel.
- a. **Hydrogen** b. Carbon dioxide
- 31 Acceleration due to gravity is maximum at poles and _____ at equator.
- a. Maximum b. Zero c. **Minimum** d. None of these
- 32 Gravity holds the Earth's atmosphere.
- a. **TRUE** b. FALSE
- 33 Viruses are not classified in any kingdom because
- a. They are too poorly understood b. **They are not considered organisms** c. They are too small
- 34 Photosynthesis is _____ type of reaction.
- a. **Anabolic** b. Catabolic c. None of these
- 35 What do we call the process in which water vapor in the air turns into tiny water droplets or ice crystals and forms clouds?
- a. **Condensation** b. Evaporation c. Precipitation
- 36 The Earth's atmosphere is held by the
- a. Wind b. Clouds c. Earth's magnetic field d. **Gravity**
- 37 The inertia of an object causes the object to
- a. Decrease its speed b. Increase its speed c. **Resist any change in the state of its motion** d. Decelerate due to friction



- 38 If quantity of the gas is increased in the container then gas pressure _____:-
- a. **Increases** b. Decreases c. Remains same d. None of above
- 39 Increase in K.E is equal to:
- a. Increase in P.E **b. Decrease in P.E** c. No effect d. Both a & b
- 40 Submarine works on the principle of:
- a. Pascal's law b. Newton's law **c. Archimedes principle** d. None of them
- 41 What will be the kinetic energy of a body if its mass is doubled?
- a. **Doubled** b. Four times c. Eight times d. Half
- 42 The mitochondrion function in _____.
- a. Making food **b. Cellular respiration** c. Both a and b
- 43 The motion of the string of a violin is:
- a. Translatory **b. Vibratory** c. Rotatory d. None of these
- 44 Work is _____ quantity:
- a. **Scalar** b. Vector c. Base d. None of above
- 45 The object will float on the liquid surface when:
- a. $W > F$ **b. $W < F$** c. $W = F$ d. None of above
- 46 Sound travels through which medium?
- a. Solid b. Liquid c. Gas **d. All the above**
- 47 If a body changes its position with respect to some observer then it will be in state of:
- a. Rest **b. Motion** c. Uniform motion d. Relative motion
- 48 Experimentation is only a step of the scientific process, but it is very important because it always:
- a. Gives the biologist a correct result b. Allows rejection of some alternative hypothesis **c. Ensures that hypothesis can be confirmed with certainty**
- 49 Ionic state of matter is called
- a. Gas **b. Plasma** c. Liquid d. None of these





- 50 Most plants keep their stomata open during which time?
a. Day time b. Night time c. All time
- 51 Chlorophyll pigment absorb maximum light in wavelength of:
a. Red and blue b. Green and red c. Green and blue
- 52 Ability of a body to do work is known as:
a. Force b. Momentum c. Power **d. Energy**
- 53 Which of the following is best for insulation?
a. Glass **b. Air** c. Brass d. Fiber glass
- 54 Transmission of heat from one body to another body by the interaction of atoms and electrons:
a. Conduction b. Convection c. Radiation d. All of above
- 55 Displacement is a
a. Scalar quantity **b. Vector quantity** c. Dimensionless quantity
- 56 If the buoyant force is less than the object's weight, the object will
a. Sink b. Float c. None of above
- 57 Unit of density
a. Kg m³ b. Kg m⁻² **c. Kg m⁻³** d. Kg m²
- 58 Energy possessed by a body due to its motion is called _____ energy:.
a. Kinetic b. Potential c. Mechanical d. All of above
- 59 The molecules of the matter are always remain in the state of:
a. Rest b. Plasma **c. Motion** d. Tension
- 60 Sound waves in air is an example of _____.
a. Longitudinal wave b. Transverse wave c. Electromagnetic wave d. None of the options
- 61 What would be the displacement of a particle moving in a circular path of radius r after a displacement of half a circle?
a. 2r b. 2 πr c. 3 πr





- 62 The movement of molecules from a region of lower concentration to higher concentration is called
- a. Diffusion b. Osmosis c. **Active transport**
- 63 Lipase enzymes act on:
- a. Starch b. **Lipids** c. Protein
- 64 Virus belongs to kingdom
- a. Monera b. Protista c. **None of the above**
- 65 Which tool do meteorologists use to measure the temperature of the air?
- a. **Thermometer** b. Barometer c. Hygromete
- 66 The simplest ratio of elements in a given formula is given by:
- a. Molecular formula b. **Empirical formula** c. None of these
- 67 In metabolism _____ works as catalyst.
- a. Vitamins b. **Enzymes** c. Lipids
- 68 Double covalent bond is formed by the sharing of _____ electron pairs.
- a. Four b. Six c. One d. **Two**
- 69 Study of motion of the bodies is known as:
- a. Heat b. Light c. Atomic physics d. **Mechanics**
- 70 Starfish eats
- a. **Mussels** b. Bacteria c. Fungi
- 71 Robert Brown discovered _____ in plants.
- a. Cell wall b. **Nucleus** c. Ribosomes
- 72 Which one of the following contain deoxygenated blood in adult human
- a. **Pulmonary Artery** b. Pulmonary vein c. Lungs
- 73 A person having none of the antigen A and B has blood group :
- a. AB b. **O** c. B
- 74 The loss of electron from atom is called:
- a. Reduction b. **Oxidation** c. None of these



75 Enzyme pepsin works in:

- a. Lungs b. Heart c. **Stomach**

76 The law about pressure on the object is presented by:

- a. Joule b. **Pascal** c. Newton d. Galileo

77 Protein is digested by:

- a. Lipase b. **Protease** c. Amylase

78 Ribosomes are constructed in the _____.

- a. **Nucleolus** b. Nucleus pores c. None of these

79 Five principal groups of organisms are prokaryotes protista fungi plants and _____.

- a. Microorganisms b. Virus c. **Animals** d. Eukaryotes

80 Study of motion without discussing the cause of motion is called:

- a. **Kinematics** b. Dynamics c. Heat d. Motion

81 Similar cells performing same function organize into group that is called

- a. Cell b. **Tissue** c. Organ

82 In binomial nomenclature the second word is:

- a. Class b. **Species** c. Order

83 Gain of electron is characterized as:

- a. Oxidation b. **Reduction** c. Both

84 Change in the position of an object is:

- a. Velocity b. **Displacement** c. Speed d. Distance

85 Weakest attractive forces are in

- a. Solid b. Liquid c. **Gases** d. Plasma

86 Gain of oxygen atom is defined as:

- a. **Oxidation** b. Reduction c. Both

87 Velocity is defined as _____ per unit time.

- a. Distance b. **Displacement** c. Power d. Acceleration





88 Plant cells have _____ and _____ which are not present in animal cell.

- a. Cell wall, Chloroplast b. Cell wall, Cell membrane c. Nucleus, Mitochondria

89 Geysers work on the principle of:

- a. Conduction **b. Convection** c. Radiation d. All of above

90 SI unit of distance is

- a. Meter b. Kilo gram c. Litre

91 Diffusion is faster in:

- a. Liquid b. Solids **c. Gases** d. Plasma

92 Solution having low solute is called

- a. Hypotonic b. Isotonic c. Hypertonic

93 The gravitational force between two bodies does not depend on

- a. **Sum of their masses** b. Their separation c. The product of their masses

94 A body moving in a straight line has a uniform motion if it travels _____ distance in equal time intervals.

- a. **Equal** b. Unequal

95 Pisum sativum is scientific name of

- a. Frog **b. Pea** c. Men

96 The law of gravitation describes the gravitational force between

- a. **Any two bodies having some mass** b. Earth and point mass only c. Earth and Sun only d. Two charged bodies only

97 Ventilation in our houses is only possible due to:

- a. Conduction **b. Convection** c. Radiation d. All of above

98 The path length travelled by a body in a given time interval is known as:

- a. Velocity **b. Distance** c. Acceleration

99 Which of the following is the function of human blood?

- a. It regulates temperature b. It transport wastes c. It provides defence **d. All of the above**





100 Pressure depends upon:

- a. Force b. Area on which force is applied c. Temperature d. Both a & b

101 The term biodiversity is derived from bio and _____.

- a. Logo b. Diversity c. Metry

102 When the last member of a particular species dies, the species is said to be

- a. Endangered b. Distinct c. Extinct

103 When temperature of the matter increases, intermolecular forces _____.

- a. Increases b. Decreases c. Remains same d. None of above

104 Distance is a

- a. Scalar quantity b. Vector quantity c. Dimensionless quantity

105 If the velocity of the body is increasing then its acceleration will be:

- a. Positive b. Negative c. Uniform d. Variable

106 The fluidity of cell membrane is due to:

- a. Proteins b. Lipids c. Carbohydrates d. Vitamins

107 In Pakistan, an Endangered species is:

- a. Sparrow b. Indus dolphin c. Crow

108 In which tissues guard cells are found?

- a. Epidermal b. Mesophyll c. Xylem

109 What is the value of the acceleration due to gravity on the surface of the Earth?

- a. 8.8 m/sec² b. 9.8 m/sec² c. 10.8 m/sec² d. 15.8 m/sec²














110 Respiration is _____ type of reaction.

- a. Anabolic b. Catabolic c. None of these

111 Cell walls are not found in

- a. Animals b. Plants c. Both of them



- 112  Atoms react with each other to attain
- a. Power b. Inertia **c. Stability** d. None of these
- 113  If the velocity of the body is decreasing then its acceleration will be:
- a. Positive **b. Negative** c. Uniform d. Variable
- 114  The scientific name of onion is:
- a. **Allium cepa** b. Zea mays c. Asterius rubens
- 115  The scientific name of human being is:
- a. **Homo sapiens** b. Pisum sativum c. Rosa indica
- 116  The chemical which inhibits blood clotting is called
- a. **Anti coagulation** b. Anti bodies c. Anti genes
- 117  Effusion is the leaking of gas through a _____ hole.
- a. Large b. Molar **c. Pin** d. Black
- 118  How much millimeter is the resolution of human eye?
- a. **0.1 mm** b. 0.01 mm c. 0.001 mm
- 119  _____ is the major component of plant cell wall.
- a. **Cellulose** b. Cholesterol c. Chitin
- 120  The force exerted perpendicularly on unit area of an object is called:
- a. Strain b. Constant **c. Pressure** d. Work
- 121  NaCl is formula of
- a. Glucose b. Sugar **c. Salt**
- 122  If a particle covers a displacement of 15m in 5 sec, its velocity will be
- a. 2m/sec **b. 3m/sec** c. 4m/sec d. 5m/sec
- 123  The coat which encased the virus is made up of
- a. Amino acids **b. Protein** c. Chitin
- 124  Work done will be _____ if no force act on the body:
- a. Maximum b. Minimum **c. Zero** d. All of above





- 125 The area under a speed time graph represents
- a. Speed b. Volume c. Acceleration **d. Distance**
- 126 A solid object is:
- a. Not elastic below the elastic limit b. Elastic above the elastic limit **c. Elastic below the elastic limit** d. None of above
- 127 Cathode is _____ charged.
- a. Positively **b. Negatively** c. Neutral
- 128 Energy is _____ quantity:
- a. Vector **b. Scalar** c. Base d. None of above
- 129 Rest and motion are _____ states.
- a. Absolute b. Constant c. Variable **d. Relative**
- 130 The _____ energy possessed by the molecules of the matter is due to its motion.
- a. Potential **b. Kinetic** c. Sound d. None of above
- 131 The unit of pressure is:
- a. Nm⁻² b. Nm⁻¹ c. Pa **d. Both a & c**
- 132 If the velocity of a body is uniform then its acceleration will be:
- a. Positive b. Negative **c. Zero** d. Doubled
- 133 Total length of a path between two points is known as:
- a. Velocity b. Acceleration c. Speed **d. Distance**
- 134 What type of weather is associated with dark clouds, rain, and thunder?
- a. Sunny **b. Stormy** c. Foggy
- 135 What does the slope of the velocity-time graph give?
- a. Speed b. Velocity **c. Acceleration** d. Displacement
- 136 Unit of work is:
- a. N b. Nm c. J **d. Both b & c**





137 The instrument used to measure atmospheric pressure

- a. Colorimeter b. Hypsometer **c. Barometer** d. None of these

138 The most common bird of world is _____.

- a. Domestic Chicken b. Pigeon c. Partridge

139 If a body does not change its position with respect to some observer then it will be in a state of:

- a. Rest b. Motion c. Uniform motion d. Relative motion

140 National animal of Oman is:

- a. Sheep b. Zebra **c. Arabian oryx**

141 What is the Earth's approximate equatorial circumference?

- a. About 20,000 kilometers **b. About 40,000 kilometers** c. About 60,000 kilometers

142 Cellular respiration takes place in:

- a. Nucleus b. Cytoplasm and nucleus **c. Mitochondria and Cytoplasm**

143 Which of the following is true for a free-falling body?

- a. It moves with non-uniform motion b. It has zero velocity **c. It has constant non-zero acceleration** d. It has non-uniform acceleration

144 Valves to prevent the back flow of blood are found in:

- a. Arteries **b. Veins** c. Capillaries

145 Generally an atom contains _____ number of electrons and protons.

- a. Equal** b. Unequal c. Both(a) and (b) d. Neither (a) or (b)

146 _____ is the product of distance and force applied.

- a. Acceleration b. Resistance **c. Work** d. Specific heat

147 Which one of these is inherited disease?

- a. Malaria b. Typhoid **c. Thalassemia**

148 Flora and Fauna means

- a. Algae and fungi **b. Plants and animals** c. Temperature area





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