



QUIZ
SCIENCE
2023-24



G-V



- 1 When the skin is damaged, bacteria enter in our body, which line of defence is crossed these bacteria?
a. **First line of defence** b. Second line of defence c. Third line of defence d. Fourth line of defence
- 2 Sensory neurons carry messages towards
a. Muscles b. Muscles and glands c. Sense organs **d. Brain and spinal cord**
- 3 Plants are _____.
a. Consumers **b. Producers** c. Decomposers
- 4 The main root of primary root system
a. Fibrous root **b. Taproot** c. Root nodules
- 5 What is the formula for calculating speed ?
a. Time /Distance b. Distance ×Time **c. Distance / Time** d. Frequency ×Time
- 6 The part of body which filters nitrogenous waste from blood
a. Liver **b. Kidney** c. Intestine d. Stomach
- 7 _____ is the part of the cell which controls the activities of the whole cell.
a. DNA **b. Nucleus** c. Chromosomes d. Gametes
- 8 The characters which are passed from parents to offspring
a. Inheritable characters b. Non – inheritable characters c. Environmental characters d. Natural characters
- 9 Use of hand sanitizer helps in
a. Killing germs from the skin and keeping it safe b. Removing germs c. Keeping skin safe d. Keeping skin moisturized
- 10 An object 's resistance to change in motion is _____.
a. Motion **b. Inertia** c. Friction d. Mass
- 11 Which of the processes below involves change in state?
a. Evaporation b. Condensation c. Sublimation **d. All of the above**
- 12 Neutrons carry
a. Positive charge b. Unit charge c. Negative charge **d. No electric charge**





- 13 A team of climbers was climbing a high mountain. When they reached near top the difficulty in breathing because at high altitude there is
- a. More oxygen **b. Less oxygen** c. More carbon dioxide d. Low temperature
- 14 Undesirable change in the environment that effects and disturb the ecosystem is called ____.
- a. Climate change **b. Pollution** c. Green house effects d. None of these
- 15 Which of the following is involved in the transport of food in plants?
- a. Xylem **b. Phloem** c. Epidermis d. Mesophyll
- 16 Zygote is formed by the fusion of
- a. Two sperm cell b. Two egg cells c. Two somatic cells **d. Sperm cell and egg cell**
- 17 A tube which arises from each kidney and enters the urinary bladder is called
- a. Convex **b. Ureter** c. Concave d. Urethra
- 18 The part of the nephron where reabsorption of useful materials occurs from filtrate to blood
- a. Glomerulus **b. Renal tubule** c. Collecting duct d. Bowman's capsule
- 19 Many axons present side by side and enclosed in a common sheath
- a. Nerve cell **b. Nerve** c. Dendrite d. Spinal cord
- 20 Mitosis occurs only in ____ cells.
- a. Germs **b. Somatic** c. Both d. None
- 21 The brain of an adult human weight between ____ grams.
- a. **1300 and 1400** b. 1500 and 1600 c. 1800 and 1900 d. 1900 and 2000
- 22 The cells which are produced as a result of cell division are called ____.
- a. Cell b. Parent cell **c. Daughter cell** d. None of these
- 23 The center of the atom is called a ____.
- a. Cells b. Organisms **c. Nucleus**
- 24 The change of milk into yogurt is
- a. Physical change **b. Chemical change** c. Climate change d. Change of colour





25 In humans, a sperm has 23 chromosomes. Egg cell has

a. **23 chromosomes** b. 46 chromosomes c. No chromosomes d. 69 chromosomes

26 The section of DNA which has information for making a specific protein is called

a. DNA strand **b. Gene** c. Chromosomes d. Nucleotide

27 Gravity and friction are two kinds of ____.

a. Inertia **b. Forces** c. Masses d. Gravity

28 Who discovered gravity ?

a. Edwin Hubble **b. Isaac Newton** c. Thomas Jefferson d. Albert Einstein

29 Cellular respiration always requires

a. **Glucose and oxygen** b. Glucose, oxygen and carbon dioxide c. Alcohol, lactic acid and carbon dioxide

30 If it takes place the presence of oxygen it is called ____ respiration.

a. Cellular b. Anaerobic **c. Aerobic**

31 Human beings get food from

a. Plants b. Animals c. Neither a or b **d. Both a and b**

32 When you have a toothache , you feel pain because

a. There is a cavity in your tooth b. Tiny bits of food are left between your teeth c. Bacteria digest the food left teeth and produce an acid **d. The cavity reaches the nerves send a message to the brain**

33 Biodiversity means:

a. **Various types of living things found at a particular place** b. Same types of living things found at a particular place c. None of these

34 Every action has reaction equal in magnitude but

a. **Opposite in direction** b. Perpendicular in direction c. Parallel in direction d. Anti parallel in direction

35 Typhoid is caused by ____.

a. **Bacteria** b. Covid-19 c. Hepatitis





- 36 Neurons transmit message in the form of electrochemical waves called _____.
a. Sensory neurons b. Motor neurons c. Inter neurons **d. Nerve impulses**
- 37 Involuntary activities like heartbeat, breathing are controlled by
a. Cerebrum b. Cerebellum **c. Medulla oblongata** d. Hypothalamus
- 38 When magnesium is burnt , heat and light are produced . The burning of magnesium is a
a. Reversible change b. Physical change **c. Chemical and exothermic change** d. Chemical and endothermic change
- 39 The number of protons in carbon is
a. 4 b. 5 **c. 6**
- 40 Hepatitis A,B,C and D, Covid-19 and dengue fever are caused by_____.
a. Infection b. Disease **c. Viruses**
- 41 Electromagnetic waves travel with the speed of light in vacuum _____ kilometer per second.
a. 200000 **b. 300000** c. 400000 d. 500000
- 42 The green pigment that is present in the leaves are called
a. Hemoglobin b. Globulin c. Albumin **d. Chlorophyll**
- 43 Each DNA molecules is made of thousands of small units called _____.
a. Adenine **b. Nucleotides** c. Cytosine d. Guanine
- 44 If you stay under trees at night , you can feel dizziness due to
a. High level of oxygen and low level of carbon dioxide **b. Low level of oxygen and high level of carbon dioxide** c. Poisonous gases released by trees d. Ghost living in trees
- 45 _____ is an oval structure present beneath midbrain.
a. **Pons** b. Medulla c. Spinal cord d. Thalamus
- 46 _____ controls many sensory functions.
a. **Thalamus** b. Hypothalamus c. Cerebellum d. Medulla
- 47 The instrument used by doctors for listening to heartbeats is called
a. **Stethoscope** b. Microscope c. Periscope d. Ophthalmoscope





- 48 The heat transfer that occurs due to a density difference in fluids is
- a. Radiation b. Convection **c. Conduction** d. Insulation
- 49 The function of nephron is to
- a. Store urine **b. Form urine** c. Push out urine from urinary bladder d. Break stones of kidneys
- 50 The reason for a physical change to be named as:
- a. Change occurs only in physical properties** b. Transfer of energy takes place c. Is a reversible change d. All of the above
- 51 There are over _____ nephrons in each kidney.
- a. One million** b. Two million c. Three million d. Four million
- 52 Hindbrain consists of ____ parts .
- a. Four b. Five **c. Three** d. Two
- 53 A person is swimming in a pool, swimming is an example of
- a. Friction b. Gravity **c. Action and reaction forces** d. All of these
- 54 An event that occurs during interphase
- a. Division of nucleus b. Division of cytoplasm **c. Duplication of chromosomes** d. Formation of cell wall
- 55 Innate, adaptive and passive immunity are three main types of immunity.
- a. TRUE** b. FALSE
- 56 Substances which expands on heating, regain their original shape on cooling without forming any new substances. This change is a
- a. Physical** b. Chemical c. None of these
- 57 Protons carry
- a. Positive charge** b. Negative charge c. Positive and negative d. No electric charge
- 58 The distance traveled per unit of time is called ____.
- a. Force b. Gravity **c. Speed** d. Energy
- 59 A person affected with anemia looks pale and feels tired. All his body cells are getting
- a. Less food **b. Less oxygen** c. Less water d. Less carbon dioxide





60 Fungi is a _____.

- a. Parasite b. Autotroph c. Insectivore d. Saprotroph

61 Characteristic of matter exhibited without a change in its identity is

- a. **Physical property** b. Chemical property c. Thermal property d. None of these

62 The speed of an object with a specific direction is known as _____.

- a. **Velocity** b. Gravity c. Friction d. Speed

63 Huge amount of heat is being generated on sun. This heat reaches from sun to earth by

- a. Convection only b. **Radiation only** c. Convection and radiation d. Conduction, convection and radiation

64 Vascular bundles are present in every part of the plant .They are made up of

- a. Xylem only b. Phloem only c. **Xylem and phloem** d. Xylem ,phloem and root hair cells

65 Which component of blood is liquid?

- a. **Plasma** b. Red blood cell c. White blood cell d. Platelets

66 Which is the best method of prevent rusting?

- a. Painting b. Greasing c. **Galvanization** d. Precipitation

67 The organisms whose cells and plasmids are usually used in genetic engineering are

- a. **Bacteria** b. Fungi c. Algae d. Algae and fungi

68 Which of the following is not a mixture?

- a. Air b. **Pure water** c. Sea water d. Lemonade

69 The word acid means

- a. **Sour** b. Sweet c. Salty d. Spicy











70 There are ____ pairs of nerves in human body.

- a. **31** b. 43 c. 37 d. 34

71 SI unit of force is

- a. Kilogram b. Centi-second c. Meter d. **Newton**



- 72  A gene is inserted into a bacterium by
- a. Tissue culture b. Fermentation c. Biodegradation **d. Genetic engineering**
- 73  Ozone is a layer of gases in _____ atmosphere of the earth.
- a. Upper** b. Lower c. Middle d. Inner
- 74  How does light travel in air?
- a. In a circle b. Along a curved path **c. Along a straight line** d. In a dispersed path
- 75  If body movements are not precise and accurate, the part of brain which may be involved
- a. Cerebellum** b. Cerebrum c. Thalamus d. Mid brain
- 76  Which material will expand on heating?
- a. Solids b. Liquids c. Gases **d. All of these**
- 77  Human beings can be categorized as _____.
- a. Parasite **b. Heterotrophs** c. Saprotrophs d. Autotrophs
- 78  Transmissions and integrations of information is possible through _____.
- a. Epithelial tissue b. Connective tissue c. Muscle tissue **d. Nervous tissue**
- 79  If the concentration of carbon dioxide increase in the air during daytime the process of
- a. Photosynthesis will decrease b. Respiration will decrease **c. Photosynthesis will increase** d. Respiration will increase
- 80  The body actions which are performed without involvement of thinking process are call _____ actions.
- a. Voluntary **b. Involuntary** c. Effectors d. Receptors
- 81  Typhoid and polio spread by faecal oral route. If we want to prevent such diseases in our area we should.
- a. Control mosquitoes b. Control air pollution c. Improve hospitals **d. Improve sanitation and hygiene condition**
- 82  There are _____ primary types of bone cells in the body.
- a. Two **b. Three** c. Four d. Five
- 83  There are _____ pairs of cranial nerves.
- a. 11 **b. 12** c. 13 d. 24



- 84 The system that moves blood throughout body is called ____ system.
a. Respiratory **b. Circulatory** c. Photosynthesis
- 85 Which of the following is the best conductor?
a. Wood b. Plastic c. Water **d. Metal**
- 86 There are ____ seconds in solar day.
a. 68000 b. 46000 c. 86040 **d. 86400**
- 87 The major organ of the excretory system is
a. Intestine b. Liver **c. Kidney** d. Lungs
- 88 Which of the following is an insectivorous plant?
a. Pitcher plant b. Cucuta c. Algae d. Lichens
- 89 There are _____ laws of motion.
a. Two **b. Three** c. Four d. Five
- 90 Glowing of electric bulb is a ____ change.
a. Physical b. Chemical c. Both physical and chemical d. None of these
- 91 When objects are heated the distance between molecules.
a. Increases b. Decreases c. Remain same d. Not effected
- 92 The organisms which prepare their own food are known as
a. Saprotrophs **b. Autotrophs** c. Heterotrophs d. None of these
- 93 What is friction?
a. A substance b. A solid c. A gas **d. A force**
- 94 The protective layer around plant parts is
a. Epidermis b. Cortex c. Mesophyll d. Vascular bundle
- 95 Speed is equal to distance divided by time.
a. TRUE b. FALSE





- 96 The periodic table have _____ horizontal rows.
a. 7 b. 10 c. 15
- 97 The best definition of force is _____.
a. **A push or pull** b. Stored energy c. Energy in motion d. Anything that takes up space
- 98 _____ can spread from one person to other person.
a. Membrane b. Vaccination c. **Germ**
- 99 Plants perform respiration:
a. Only during day time b. **All the time** c. At night time only
- 100 The upper blood receiving part of each is called _____.
a. **Atrium** b. Ventricle c. None of these
- 101 If a body moves for 10 seconds with speed of 30 m/s then its covered distance is
a. 30 m b. 3 m c. **300 m** d. 150 m
- 102 In aqueous solution which of the following is most soluble solute?
a. Oil b. **Sugar** c. Chalk d. Sand
- 103 What may be the objectives of genetic modifications of plants?
a. Production of disease resistant plants b. Improvement in nutritional quality of plants c. Production of herbicide resistant plants d. **All of these**
- 104 If a solid is dissolved in a liquid is called a solution, what is the liquid called ?
a. Solute b. **Solvent** c. Suspension d. Sediment
- 105 Photosynthesis will not occur in leaves in the absence of
a. Guard cell b. **Chlorophyll** c. Vacuole d. Space between cell
- 106 (J) is the symbol for unit joule, it is the unit of
a. Temperature b. **Heat** c. Power d. Voltage
- 107 The smallest particle of an element is
a. Molecule b. **Atom** c. Cell d. DNA





- 108 _____ transmits message from one part of the body to another
- a. Vein **b. Nerve** c. Cell d. Motor neuron
- 109 Light wave, radio wave and X-ray are examples of
- a. **Transverse waves** b. Longitudinal wave c. S – seismic waves
- 110 Our heartbeat, blood pressure, vomiting is controlled by _____.
- a. Cerebrum b. Cerebellum **c. Medulla oblongata** d. Spinal cord
- 111 The parts of a neuron which receive message are
- a. Cell bodies **b. Dendrites** c. Axons d. Nuclei
- 112 The chambers of the heart which receive oxygen rich blood from the lungs:
- a. Right and left atrium b. Right and left ventricle c. Right atrium and right ventricle **d. Left atrium and left ventricle**
- 113 The removal of nitrogenous waste material from the body is called _____.
- a. Reflex arc b. Voluntary c. Involuntary **d. Excretion**
- 114 _____ is the topmost and the largest part of the brain.
- a. Mid brain b. Hindbrain c. Cerebellum **d. Cerebrum**
- 115 Which of the following is not a biotechnology product?
- a. Insulin **b. Quinine** c. Beta-endorphin d. Interferon
- 116 The number of electron in Aluminum
- a. 14 **b. 13** c. 12
- 117 Which of the following are the building blocks of modern electrical devices?
- a. **Integrated circuits** b. Transistors c. Diodes d. None of these
- 118 Which is the solution of environmental problems.
- a. Reducing pollution b. Plantation c. Protection of endangered **d. All these**
- 119 Cell makes copies of its chromosomes during
- a. **Interphase** b. Nuclear division of mitosis c. Nuclear division of meiosis d. Cytokinesis





120 Cellular respiration has ____ types.

- a. One **b. Two** c. Three d. Four

121 ____ are used as cooling agents in refrigerators.

- a. **CFC'S** b. Ozone c. Sulphur oxide d. Helium

122 Human brain consists of ____ of inter-neurons.

- a. **Billions** b. Millions c. Hundred d. Thousand

123 The nucleus of an atom contains

- a. Proton ,electron and neutrons b. Electrons and protons c. Proton and electron **d. Protons and neutrons**

124 The first coiled part of renal tubule is called ____.

- a. Distal tubule b. Loop of henle **c. Proximal tubule**

125 The exchange of substances between blood and body cells can take place at the

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

126 Which one is not a way to preserve food ?

- a. Freezing b. Pickling c. Curing **d. Garnishing**

127 An oxide of iron from the following is

- a. Mud b. Dust **c. Rust** d. None of these

128 Parasites obtain their food from

- a. Insects b. Plants c. Animals **d. All of these**

129 The flat green portion of a leaf is called ____.

- a. Midrib b. Leaves **c. Blade**

130 ____ is essential for all living organisms.

- a. Proteins b. Fat **c. Food** d. None of these

131 Material that trap air like fur, wool and sawdust are heat.

- a. **Insulator** b. Conductors c. Reflectors d. Convectional devices





- 132 Which of the following object reflects the maximum light?
a. **Mirror** b. Coloured paper c. White paper
- 133 The heart is divided into ____ sides.
a. Three b. Four c. **Two**
- 134 A force that opposes motion between two surfaces is called ____.
a. Speed b. Acceleration c. Weight d. **Friction**
- 135 Living components of ecosystem are
a. Abiotic b. **Biotic** c. Both a and b
- 136 Oxygen has 8 protons, 8 neutrons and ____ electrons.
a. **8** b. 9 c. 10
- 137 A solution containing less solute than its capacity to dissolve is
a. Saturated b. **Unsaturated** c. Supersaturated d. Aqueous
- 138 Reading, writing, driving and speaking are ____ actions.
a. **Voluntary** b. Involuntary c. Both d. None
- 139 Matter is pulled to the ground by ____.
a. **Gravity** b. Space c. Air d. Soil
- 140 The atomic number of Sulphur is
a. 17 b. **16** c. 18
- 141 Respiratory system related diseases mostly spread through
a. Water b. Food c. Blood d. **Droplets in air**
- 142 ____ are special proteins in blood which can recognize and kill viruses and bacteria.
a. Immune b. Response c. **Antibodies**
- 143 Arteries branch off into tiny vessels called ____
a. **Capillaries** b. Blood vessels c. Arterioles
- 144 The exchange of gases between blood and air takes place at
a. Trachea b. Bronchi c. Bronchioles d. **Alveoli**





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