

**Class: 7**  
**Subject: Science**  
**Topic: ASK1507UT03**  
**No. of Questions: 60**

BIOLOGY

Q1. The mitral value is also known as the \_\_\_\_.

- (a) Bicuspid value
- (b) Tricuspid value
- (c) Aortic semilunar value
- (d) Pulmonary semilunar value

Sol. (a)

Q2. During atrial systole, \_\_\_\_.

- (a) The ventricular
- (b) The tricuspid value closes
- (c) The atrial muscles contract
- (d) Blood passes into the aorta

Sol. (c)

Q3. The number of chambers in a human heart is \_\_\_\_

- (a) 3
- (b) 2
- (c) 4
- (d) 5

Sol. (c)

The human heart consists of four chambers, two upper auricles or atria, and two lower ventricles.

Q4. Sap in the "ascent of Sap" consists of \_\_\_\_.

- (a) Only water
- (b) Only minerals
- (c) Both water and minerals
- (d) Food prepared by plant

Sol. (c)

Q5. The water utilized by plants for their metabolism is roughly \_\_\_\_ of the total absorbed water.

- (a) 10%
- (b) 5%
- (c) 4%
- (d) 1%

Sol. (d)

Q6. Transport of prepared food in plants is \_\_\_\_.

- (a) Always downward
- (b) Always upward
- (c) Multidirectional
- (d) Always lateral

Sol. (c)

Transport of prepared food occurs through phloem. Since, it occurs from leaves to all other parts of the plant, it is multi directional.

Q7. \_\_\_\_ is the loss of water from leaves and other aerial parts of the plants during the day.

- (a) Evaporation
- (b) Transpiration
- (c) Guttation
- (d) Translocation

Sol. (b)

Transpiration is the loss of water from the aerial parts of the plants. It occurs through the stomata during the day.

Q8. The upper two chambers of the heart are called \_\_\_\_.

- (a) Aorta
- (b) Auricles
- (c) Septa
- (d) Ventricles

Sol. (b)

The human heart has four chambers and the upper two chambers are called auricles or artia.

- Q9. The pulmonary vein opens into the \_\_\_\_
- (a) Left auricle
  - (b) Right auricle
  - (c) Right ventricle
  - (d) Left ventricle

Sol. (a)  
The left auricle receives oxygenated blood from the lungs through the pulmonary vein.

- Q10. The pulmonary artery arises from the \_\_\_\_.
- (a) Right auricle
  - (b) Left auricle
  - (c) Left ventricle
  - (d) Right ventricle

Sol. (d)  
The pulmonary artery arises from the right ventricle and carries deoxygenated blood to the lungs.

- Q11. Which of the following is in contact with the water present between the soil particles?
- (a) Primary root
  - (b) Lateral root
  - (c) Root hair
  - (d) Root cap

Sol. (c)  
The root hair is in contact with the water present between the soil particles.

- Q12. Prepared food in plants is distributed by \_\_\_\_
- (a) Xylem
  - (b) Phloem
  - (c) Parenchyma
  - (d) Collenchyma

Sol. (b)  
Phloem is a vascular tissue and is known for the translocation of the prepared food.

- Q13. Water absorption through roots can be increased by keeping the plants \_\_\_\_.
- (a) In the shade
  - (b) In the sun
  - (c) Under the fan
  - (d) Covered with a polythene bag

Sol. (b)

- Q14. Absorption of water by root hairs from soil occurs through \_\_\_\_
- (a) Diffusion
  - (b) Osmosis
  - (c) Imbibition
  - (d) Suction

Sol. (b)  
Water absorption in plants, which happens through roots hairs, involves osmosis.

- Q15. Which of the following builds a suction pressure in the xylem vessel for pulling the water up to the top of the tree?
- (a) Transpiration
  - (b) Adhesive force
  - (c) Cohesive force
  - (d) Wall pressure

Sol. (a)

- Q16. During transpiration, loss of water from plants occurs in the form of \_\_\_\_.
- (a) Water vapour only
  - (b) Water vapour and liquid
  - (c) Liquid and other compounds
  - (d) Water vapor, water droplets and other compounds

Sol. (a)

- Q17. Red blood cells are produced in the \_\_\_\_.
- (a) Liver
  - (b) Lymph
  - (c) Spleen
  - (d) Marrow of long bones

Sol. (d)

Q18. The contraction phase of heart beat is \_\_\_\_.

- (a) Blood pressure
- (b) Diastole
- (c) systole
- (d) cardiac output

Sol. (c)

Q19. The average life span of red blood cells is \_\_\_\_.

- (a) 3 to 5 days
- (b) A few hours
- (c) 50 days
- (d) 120 days

Sol. (d)

Q20. The valve that prevents backward flow of blood from the left auricle to the right auricle is the \_\_\_\_

- (a) Mitral valve
- (b) Auricular ventricular valve
- (c) Tricuspid valve
- (d) Semilunar value

Sol. (c)

#### CHEMISTRY

Q21. The daily weather report contains information about the \_\_\_\_ during the past 24 hours.

- (a) Rate of snowfall
- (b) Rainfall
- (c) Fog formation
- (d) Availability of water

Sol. (b)

The daily weather report contains information about the rainfall during the past 24 hours.

- Q22. Which of the following prevents the polar bear from being visible in the snowy white background?
- (a) Black fur
  - (b) White fur
  - (c) Thick skin
  - (d) Shiny skin

Sol. (b)  
Its white fur prevents the polar bear from being visible in the snowy white background.

- Q23. Big cats like lions and tigers have \_\_\_ and \_\_\_.
- (a) A fat tail, a light skin
  - (b) A thick skin, are sensitive to hearing
  - (c) A black skin, are hard of hearing
  - (d) Black fur, a short tail

Sol. (b)

- Q24. The sun does not set at poles for \_\_\_ months.
- (a) Two
  - (b) Six
  - (c) Twelve
  - (d) Five

Sol. (b)

- Q25. If we feel the soil to be sticky, it is \_\_\_ soil.
- (a) Sandy
  - (b) Silt
  - (c) Clay
  - (d) Loamy

Sol. (c)

- Q26. Very sandy soils usually have \_\_\_\_.
- (a) Low water infiltration rates, high bulk densities, and moderate water storage capacity
  - (b) Low water infiltration rates and low water storage capacity
  - (c) Rapid water infiltration rates, high bulk densities, and low water storage capacity
  - (d) Rapid water infiltration rates and low bulk densities

Sol. (c)

Very sandy soils usually have rapid water infiltration rates, high bulk density, and low water storage capacity. Sand particles have space between them and so, water can drain quickly.

- Q27. Weathering is the \_\_\_\_
- (a) Changes in the seasons
  - (b) Study of directions of winds
  - (c) Mechanical breakup of rocks
  - (d) Study of formation of minerals

Sol. (c)  
Weathering is the mechanical breakup of rocks in the process of soil formation. Soil is formed by weathering.

- Q28. Which of the following is not suitable for our kitchen garden?
- (a) Cow dung
  - (b) Vermicomposting
  - (c) Humus
  - (d) Formaldehyde

Sol. (d)  
Formaldehyde is not suitable for kitchen garden. Vermicompost, humus and cow dung provide the basic nutrients which can be easily absorbed by plants and are suitable for kitchen garden.

- Q29. The daily weather report contains information about \_\_\_\_.
- (a) Rotation of earth
  - (b) Direction wind current
  - (c) Day temperature
  - (d) News timings on television

Sol. (c)  
The daily weather report contains information about day temperature during the past 24 hours.

- Q30. The temperature, rainfall and humidity are called the \_\_\_\_ of weather.
- (a) Parts
  - (b) Components
  - (c) Elements
  - (d) Constituents

Sol. (c)  
The temperature, rainfall and humidity are called the elements of weather.

Q31. Tropical rain forests are not found in \_\_\_\_.

- (a) Malaysia
- (b) Indonesia
- (c) Kenya
- (d) Sweden

Sol. (d)

Tropical rain forests are not found in Sweden, Sweden is in a polar region.

Q32. The \_\_\_ of a monkey helps it to hold branches and jump from one tree to the other.

- (a) Fore limbs
- (b) Hind limbs
- (c) Nails
- (d) Long tail

Sol. (d)

The long tail of a monkey helps it to hold branches and jump from one tree to the other.

Q33. In clayey soil, water drains \_\_\_\_.

- (a) Quickly
- (b) Slowly
- (c) Negligibly
- (d) Moderately

Sol. (b)

In clay soils, water drains slowly. As a result, soil remains wet for long periods.

Q34. Water holding capacity is highest in \_\_\_\_ soil.

- (a) Sandy
- (b) Silt
- (c) Clayey
- (d) Loamy

Sol. (c)



Q35. The most important factors in determining soil characteristics is \_\_\_\_.

- (a) The topography of the area
- (b) Parental bedrock
- (c) Climate
- (d) Temperature

Sol. (b)

The characteristics of soil properties are determined by the type of rock that the parent material came from.

Q36. The principal component of human is \_\_\_\_.

- (a) Hydrogen
- (b) Carbon
- (c) Oxygen
- (d) Sulphur

Sol. (b)

Q37. \_\_\_\_ is lighter than water.

- (a) Clay
- (b) Gravel
- (c) Humus
- (d) Sand

Sol. (c)

Q38. Which of the following does not belong to the polar region?

- (a) Greenland
- (b) Iceland
- (c) England
- (d) Finland

Sol. (c)

England does not belong to the polar region.

Q39. The \_\_\_\_ of a monkey helps it to hold branches and jump from one tree to the other.

- (a) Fore limbs
- (b) Hind limbs
- (c) Nails
- (d) Long tail

Sol. (d)  
The long tail of a monkey helps it to hold branches and jump from one tree to the other.

- Q40. The maximum and minimum temperatures are recorded every \_\_\_\_
- (a) Year
  - (b) Week
  - (c) Day
  - (d) Fortnight

Sol. (c)

### PHYSICS

- Q41. Combination of two or more cells is called \_\_\_\_.
- (a) Battery
  - (b) Wire
  - (c) Circuit
  - (d) Switch

Sol. (a)  
The combination of two or more cells is called a battery. In battery the positive terminals of one cell is consented to the negative terminal of next cell.

- Q42. The path along which an electric current can flow is called a / an \_\_\_\_.
- (a) Wire
  - (b) Electric fuse
  - (c) Electric circuit
  - (d) Battery

Sol. (c)

- Q43. In CFL, C stands for \_\_\_\_.
- (a) Circuit
  - (b) Compass
  - (c) Current
  - (d) Compact

Sol. (d)  
CFL stand for compact fluorescent lamp. Hence, in CFL, stands for compact.

Q44. \_\_\_\_ A circuit can causes excessive heating that can damage the insulation of wires and starts fires.

- (a) The bulb in
- (b) The fuse in
- (c) Overloading
- (d) The electric cell in

Sol. (c)

Overloading a circuit can causes excessive heating that can damage the insulation of wires and start fires.

Q45. MCB stands for \_\_\_\_.

- (a) Miniature current breaker
- (b) Miniature compact breaker
- (c) Miniature circuit breaker
- (d) Miniature compass breaker

Sol. (c)

Q46. The coil present in an electric bell acts as \_\_\_\_.

- (a) A permanent magnet
- (b) A horse – shoe magnet
- (c) An electromagnet
- (d) A simple metal

Sol. (c)

Q47. Direction of magnetic field due to a current carrying conductor is reversed if \_\_\_\_.

- (a) A large amount of current starts flowing
- (b) The direction of current in the conductors is reversed
- (c) A small amount of current starts flowing
- (d) The direction of compass needle is reversed

Sol. (b)

Direction of magnetic field due to a current carrying conductor is reversed if the direction of current in the conductor is reversed.

Q48. When an electric current passes through a wire, magnetic field is developed around it. This phenomenon is called the \_\_\_\_.

- (a) Electric effect of electric current
- (b) Electric effect of magnetic field
- (c) Heating effect of electric current
- (d) Magnetic effect of electric current

Sol. (d)

The phenomenon of developing magnetic field around a current carrying conductor is called the magnetic effect of electric current.

Q49. A compass needle is made of \_\_\_\_.

- (a) A strong magnet
- (b) An electro – magnet
- (c) A tiny magnet
- (d) A horse- shoe magnet

Sol. (c)

Q50. Which of the following cannot produce the same effects similar to a current carrying wire?

- (a) An electromagnet
- (b) A solenoid
- (c) A magnet
- (d) A battery

Sol. (d)

When electric current passes through a wire, it develops magnetic field around it. An electromagnet, a solenoid and a magnet develop magnetic field around them whereas a battery cannot develop magnetic fields around it.

Q51. Current flows in \_\_\_\_ in the circuit.

- (a) An open circuit without a battery
- (b) An open circuit with a battery
- (c) A closed circuit with a battery
- (d) A closed circuit without a battery

Sol. (c)

Q52. \_\_\_ is used to make battery of two or more cells.

- (a) Cell holder
- (b) Metal strip
- (c) Circuit
- (d) Components

Sol. (a)  
Cell holder is used to make battery of two or more cells.

Q53. CFLs are used in place of ordinary bulbs to \_\_\_\_.

- (a) Increase heat produced
- (b) Reduce wastage of electricity
- (c) Make bulb glow brighter
- (d) Make bulb glow dimmer

Sol. (b)  
CFLs are used in place of ordinary bulbs to reduce wastage of electricity by reducing the heat produced.

Q54. An electromagnet attracts pieces of iron because of the \_\_\_\_.

- (a) Electric effect of magnetic field
- (b) Heating effects of electric current
- (c) Magnetic effect of electric current
- (d) Electric effect of electric current

Sol. (c)

Q55. \_\_\_ was the first person who noticed the deflection of a compass needle placed near a current carrying conductor.

- (a) Faraday
- (b) Thomas Alva Edison
- (c) Graham Bell
- (d) Hans Christian Oersted's

Sol. (d)  
Hans Christian Oersted's was the first person who noticed the deflection of a compass needle placed near a current carrying conductor.

- Q56. An electric bulb is said to be fused when \_\_\_\_.
- (a) Its filament is fused or broken
  - (b) Its filament becomes a little hot
  - (c) Its filament glows
  - (d) Current does not passed through it

Sol. (a)

- Q57. \_\_\_\_ is a safety device in a circuit.
- (a) Cell
  - (b) Fuse
  - (c) Battery
  - (d) Switch

Sol. (b)  
A fuse is a safety devices that protect the circuit from large currents.

- Q58. An electric cell has \_\_\_\_ terminals.
- (a) One
  - (b) Two
  - (c) Three
  - (d) Four

Sol. (b)  
An electric cell has two terminals, one positive and the other negative.

- Q59. In an electric circuit \_\_\_\_ work as source of electricity.
- (a) Switch
  - (b) Wires
  - (c) Cell
  - (d) Bulb

Sol. (c)

- Q60. Which of the following is not a component of electric circuit?
- (a) Electric bulb
  - (b) Switch
  - (c) Toy
  - (d) Battery

Sol. (c)

The components of an electric circuit are electric cell, electric bulb, switch and batteries. Toy is not a component of electric circuit.

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