

CBSE Class 10 Science Sample Paper Solution SA 1 Set 2

SCORE KEY

1. $\Omega \text{ m}$
2. Potassium
3. Acid facilitates the action of pepsin on proteins
4. Salivary amylase
5. Definition . V I
6. Antioxidants. Fill the packet with nitrogen.
7. In parallel connection failure of one device does not affect others.(1) Different devices need different amount of electric current. This is possible only in parallel connection.
8. Pancreatic lipase converts fats into fatty acids and glycerol(1 mark).It takes place in the small intestine(1 mark).
9. (a) $\text{Ca(OH)}_2 + \text{CO}_2 \rightarrow \text{CaCO}_3 + \text{H}_2\text{O}$
(b) $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$
10. Alloys are homogeneous mixture of a metal with another metal or non metal.
11. Sodium is highly reactive. To prevent oxide formation it is kept in kerosene.
12. Hydrogen Gas. $\text{Fe} + \text{H}_2\text{SO}_4 \rightarrow \text{FeSO}_4 + \text{H}_2$
13. Oxygen is transported in the form of oxy-hemoglobin.
14. Glucose \rightarrow Pyruvate \rightarrow absence of oxygen \rightarrow Carbon dioxide & alcohol + Energy
 \rightarrow Lack of oxygen \rightarrow Lactic acid + Energy
 \rightarrow Presence of oxygen \rightarrow Carbon dioxide + Water + Energy
15. Resistance of a conductor depends on length, area of cross section and nature of the material. $R \propto L$
16. Metals are malleable, ductile, lustrous and sonorous. They are good conductors of heat and electricity.
17. Nephrons are the structural and functional unit of kidneys. Bowman's Cup glomerulus, pressure filtration of blood, tubular reabsorption etc.,
18. Magnetic lines originate from north pole. They will never intersect. The degree of closeness of the magnetic field lines shows the strength of the magnet.
19. Fossil fuels are non-renewable. they pollute air. They are not available everywhere.
20. Definition. Alloys have higher resistivity than that of pure metals.
21. Renewable sources are available at all times. they will not get exhausted. Non-renewable sources are limited. eg:- coal, petroleum, natural gases.,
22. Definition. Fuse and earth wire.
23. Neuron diagram (2 marks). Labelling (1 mark). Explanation (2 marks).
24. Bleaching powder is prepared by passing chlorine over dry slaked lime. Chemical equation. Any 2 uses. (2+1+2)
25. To get 4Ω resistance connect (a) 3Ω and 6Ω in parallel and 2Ω in series.
(b) to get 1Ω resistance connect all the resistors in parallel. Diagram of circuit.
26. b.increases
27. c.Oersted
28. a.Generator
29. a.Methane
30. c.Mouth
31. b.Translocation
32. b.Phototropism
33. c.Sour taste
34. c.mercury
35. a.decomposition
36. a.silver
37. a.parallel
38. a.parallel straight lines
39. a.Galvanometer
40. d.Firewood
41. b.Liver