

MCQ

1. Which of the following events in the mouth cavity will be affected if salivary amylase is lacking in the saliva? (1)
 - a. Starch breaking down into sugars.
 - b. Proteins breaking down into amino acids.
 - c. Absorption of vitamins.
 - d. Fats breaking down into fatty acids and glycerol.
2. When Ag is exposed to air it gets a black coating of (1)
 - a. AgNO₃
 - b. Ag₂S
 - c. Ag₂O
 - d. Ag₂CO₃
3. An object when placed in front of a concave mirror, its image formed in front of it reduced to $\frac{2}{3}$ rd the size of the object, then position and nature of image formed will be (1)
 - a. at C ,virtual & erect
 - b. between P and F, real & erect
 - c. between C and F, real & inverted
 - d. beyond C ,real & inverted

SHORT Q/A

4. Give reasons:
 - (a) Ventricles have thicker muscular walls than atria.
 - (b) Circulation of blood in aquatic vertebrates differs from that in terrestrial vertebrates. (2)
5. Draw a flow chart to show the breakdown of glucose by various pathways. (3)
6. On heating blue coloured powder of copper (I) nitrate in a boiling tube, copper oxide (black), oxygen gas, and a brown gas X is formed
 - a. Write a balanced chemical equation of the reaction.
 - b. Identity the brown gas X evolved.
 - c. Identify the type of reaction. (3)
7. (a) "Vehicles in this mirror are closer than they appear ". Why is this warning printed on the side view mirror of most Vehicles? (2)
(b) The linear magnification produced by a spherical mirror is $\frac{2}{3}$. Analysing this value state the (i) type of mirror and (ii) position of the object with respect to the pole of the mirror. Draw ray diagrams to justify your answer. (2)