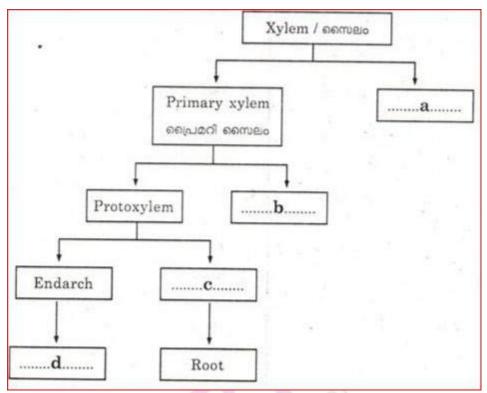
Kerala Board Class 11



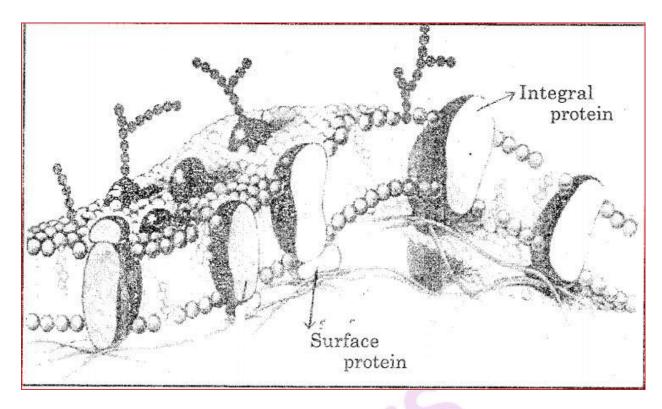
Biology Important Questions

Botany Important Questions

1. Complete the flowchart given below:

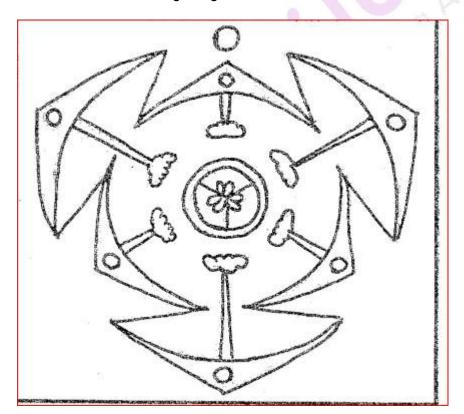


- 2, Plants are adversely affected by manganese toxicity. Mention the effects of manganese toxicity in plants.
- 3. The breakdown of glucose to pyruvic acid is called glycolysis. Where does it occur in a cell? How many ATP molecules are directly synthesized during the process?
- 4. First phase of meiosis I is typically longer and complex one. Name it. Mention the 5 subdivisions of this phase.
- 5. Give the scientific term of the following:
- a. Interchange of genetic material between non sister chromatids of homologous chromosomes
- b. Internode elongation just prior to flowering
- 6. Distinguish between the protonema and prothallus
- 7. A plant when placed in a concentrated sucrose solution, shrink after a few hours. Identify the physical phenomenon that leads to the shrinkage of cells and justify your answer
- 8. Observe the diagram below:



Analyze the diagram and explain the structure of the plasma membrane.

9. Observe the floral diagram given below:



- a. Identify the family
- b. Write any four floral characteristics of the identified family
- 10. "Respiration is an amphibolic pathway". Evaluate the statement.

Zoology Important Questions

11, Molecular structure of 2 amino acids are given below:

a. Name them

$$COOH$$

$$H - C - NH_2$$

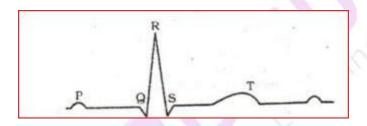
$$CH_2OH$$

$$COOH$$

$$H-C-NH_2$$

$$CH_3$$

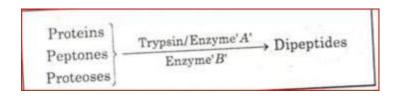
- 12. Select the bones of the leg from the given list of bones. Humerus, Tibia, Radius, Femur, Tarsals, Ulna, Fibula, Carpels
- 13. Diagrammatic representation of a standard ECG is given below:



- a. What does the QRS Complex denotes?
- b. Mention the clinical significance of ECG
 - 14. Match the terms in Column A with those in Column B and C.

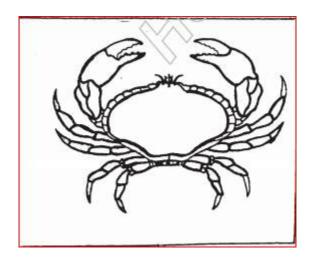
	A	В	С
a)	Neutrophils	2-3%	Immune Response
b)	Eosinophils	20- 25%	Phagocytic
c)	Lymphocytes	60-65%	Allergic Reaction

15. Protein digestion by proteolytic enzymes is given below:



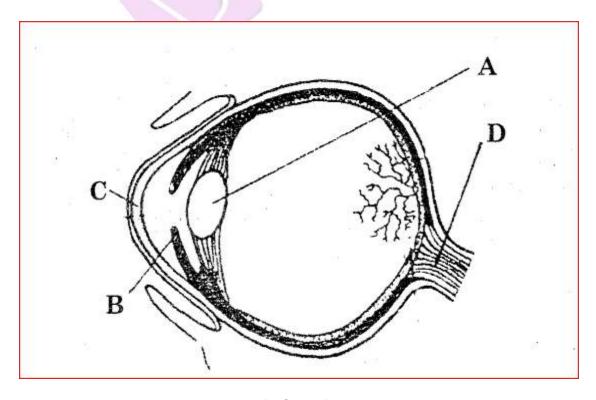
a. Name the enzymes marked as A and B

- b. Identify the gland which secretes these enzymes
- c. Write the inactive form of the enzymes A and B
 - 16. Diagram of an animal is shown below:



Identify its symmetry.

- 17. "In cockroaches a special mode of vision is noticed".
- a. Write the speciality of vision in cockroach
- b. Name the organ and its basic units that perform vision in cockroach
- 18. Metabolites are organic compounds constantly utilized in various metabolic activities in the cells.
- a. What are the 2 types of metabolites in the cells?
- b. Give an example for each type of metabolites.
- 19. Observe the diagram carefully and answer the following questions:



- a. Label the parts marked as A. B, C and D.
- b. Identify the photoreceptor cells present in the human eye

- 20. "The functioning of a human kidney is efficiently monitored and regulated by hormonal actions of hypothalamus pituitary, JGA and to a certain extent by heart."
- a.
- Do you agree with this statement?
 Justify the answer with suitable reasons. b.

