

APRIL 2017

**1708203/PBYM13A**

Time : Three hours

Maximum : 75 marks

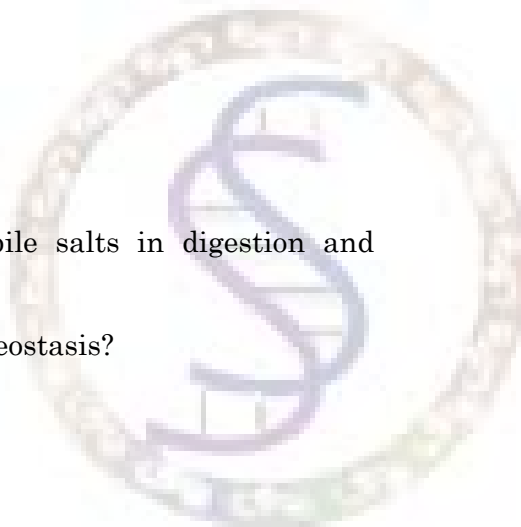
SECTION A — (10 × 1 = 10 marks)

Answer any TEN questions.

Each question carries 1 mark.

Write short notes on the following :

1. Cadherins.
2. Anchoring.
3. Endocytosis.
4. Aquaporins.
5. Types of WBC.
6. List out the role of bile salts in digestion and absorption.
7. What is Acid-base homeostasis?
8. Respiratory acidosis.
9. What are nerve cells?



10. Comment on Actins.
11. What are Glycoproteins?
12. What are membrane rafts?

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Give shortly on glycosaminoglycans.
14. Write briefly on membrane transport systems.
15. Describe the absorption and digestion of carbohydrates.
16. Write the regulation of fluid and electrolyte balance.
17. Explain neurotransmitters with suitable examples.
18. Write on the steps involved in blood clotting mechanism.
19. Give an account on gaseous transport in lungs.

## SECTION C — (4 × 10 = 40 marks)

Answer any FOUR questions.

Each question carries 10 marks.

20. Describe in detail about various types and importance of tissues.
21. Explain in detail on voltage gated and ligand gated ion channels.
22. Explicate the mechanism of HCl formation in stomach.
23. Discuss on the mechanism of the movement of O<sub>2</sub> and CO<sub>2</sub> through lungs.
24. Enumerate the photochemical reaction and regulation of rhodopsin.
25. Explain the theories and mechanism of muscle contraction.