APRIL 2018 **1709317/UBYM41A**

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

Each question carries 2 marks.

1. What are triglycerides?
2. Define Iodine number.
3. Write the structure of stigmasterol.
4. What is HDL?
5. Define hypochromicity.
6. What is meant by superhelicity?
7. Name purine and pyrimidine bases.
8. What are the types of RNA?
9. How is RNA formed in a cell?
10. What is hn RNA?
11. Write the biological significance of carotenoids.
12. Write the functions of streptomycin.

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Discuss about the saturated and unsaturated, fatty acids with their importance.

14. Explain about Reichert Meissl number and Polensky number.

15. Describe briefly on the biological functions of LDL.

16. Explain the structure and biological importance of cholesterol.

17. Differentiate A and B DNA.

18. Briefly discuss about the isolation or RNA.

19. Write short notes on biological significance of flavonoids.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

Each question carries 10 marks.

20. Explain in detail about the isolation and identification of fats by folch method.

21. Give an account on the structure and functions of phospholipids.

22. Discuss in detail about the denaturation of DNA, and add a note on annealing.

23. Give an account on the structure and functions of mRNA.

24. Explain the biological significance of

    (a) Tetracycline

    (b) Bile pigments.

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