

NOVEMBER 2017

1709114/UBYM41A

Time : Three hours

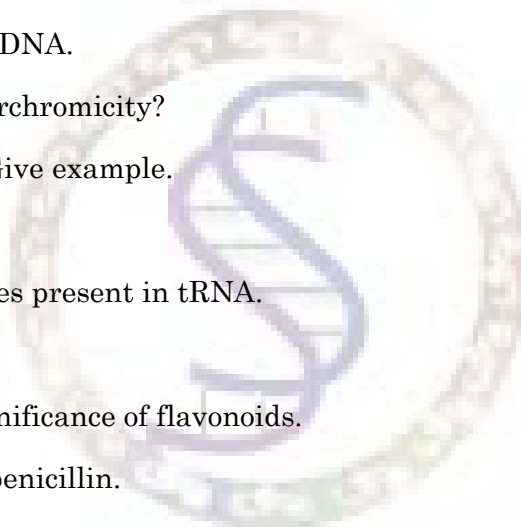
Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

Each question carries 2 marks.

1. What are essential fatty acids?
2. Define acid number.
3. Write the structure of cholesterol.
4. What is sphingomyelin?
5. Define denaturation of DNA.
6. What is meant by hyperchromicity?
7. What is a nucleotide? Give example.
8. What are Lipoprotein?
9. Name the modified bases present in tRNA.
10. What is SnRNA?
11. Write the biological significance of flavonoids.
12. Write the functions of penicillin.



PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Discuss about the biological functions of fats.
14. Explain about Iodine number and saponification number.
15. Describe briefly on the functions of cholesterol.
16. What are lipoproteins? Write their types.
17. Write the properties of DNA.
18. Briefly discuss the structure and functions of mRNA.
19. Explain about the biological significance of heme.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

Each question carries 10 marks.

20. Explain in detail about the classification of lipids.
21. Give an account on
  - (a) Stigmasterol
  - (b) Lecithin.

22. Elaborately discuss the structure of DNA.
  23. Give an account on the secondary structure of tRNA.
  24. Write the biological importance and significance of
    - (a) Indole ring compounds.
    - (b) Carotenoid.
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