

APRIL 2017

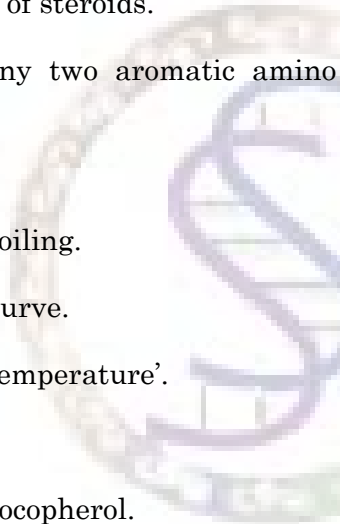
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Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer any TEN questions.

1. What is mutarotation?
 2. Draw the structure of pectin.
 3. Mention any two functions of hyaluronic acid.
 4. Write a short note on ceramide.
 5. List out any two functions of steroids.
 6. Draw the structure of any two aromatic amino acids.
 7. What is Bohr Effect?
 8. Comment on DNA super coiling.
 9. Write a short note on cot curve.
 10. Define the term 'melting temperature'.
 11. Comment on rickets.
 12. Write the structure of α -tocopherol.
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SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Give an account on proteoglycans.
14. Write the structure and functions of leukotriene B₄.
15. Illustrate the structure and functions of lecithin and cephalin.
16. Explain the structure of collagen.
17. Outline the secondary structure of proteins.
18. Describe briefly on mitochondrial DNA.
19. Enumerate the structure and functions of lipoic acid.

SECTION C — (4 × 10 = 40 marks)

Answer any FOUR questions.

20. Elaborate the structure and functions of (a) starch, (b) agar.
21. Explain the classification of lipids.
22. Give a detailed account on structural and functional classification of proteins.

23. Describe the structure of (a) tRNA, (b) mRNA.
 24. Illustrate the sources, structure and functions of vitamin A.
 25. Write a detailed note on enzymic antioxidants.
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