

APRIL 2017

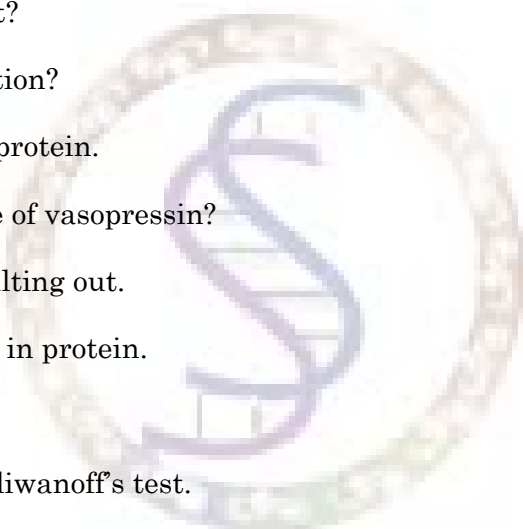
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Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What are epimers in carbohydrates.
 2. Differentiate reducing and non reducing sugars.
 3. Give any two functions of agar.
 4. Differentiate amylose and amylopectin.
 5. What is isoelectric point?
 6. What is ninhydrin reaction?
 7. Define denaturation of protein.
 8. What is the significance of vasopressin?
 9. Define salting in and salting out.
 10. Note on Hydrogen bond in protein.
 11. Define peptide bond.
 12. Give the importance Seliwanoff's test.
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SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Give the structure and properties of sucrose.
14. Write a note on composition and functions of agar.
15. Discuss glycoproteins.
16. Give any two of the chemical reactions of amino acids.
17. Write about estimation of protein by biuret method.
18. Discuss about secondary structure of protein.
19. Explain about protein sequencing.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Write an essay on :
 - (a) Optical isomerism
 - (b) Mutarotation in carbohydrates.
21. Give the structure and biological significance of hyaluronic acid.

22. Give the biological significance and colour reactions of amino acids.
 23. Explain the steps involved in solid state peptide synthesis and biological importance of peptides.
 24. Discuss tertiary and quaternary structure of protein.
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