Turn Over

QP CODE: 24019285



Reg No : Name :

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024

Second Semester

Complementary Course - BC2CMT02 - BIOCHEMISTRY- BIOMOLECULES

(Common to B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany and Biotechnology Model III Double Main, B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology Model II Food Microbiology, B.Sc Zoology Model II Medical Microbiology, B.Sc Zoology and Industrial Microbiology Model III Double Main, B.Sc Biological Techniques and Specimen Preparation Model III , B.Sc Botany Model II Plant Biotechnology , B.Sc Biotechnology Model III , B.Sc Microbiology Model III Plant

2017 ADMISSION ONWARDS

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Time: 3 Hours

Max. Marks : 60

Part A

Answer any **ten** questions. Each question carries **1** mark.

- 1. What are epimers?
- 2. Comment on anomers.
- 3. Comment on Heparin.
- 4. Give any two examples for compound lipids.
- 5. What are Monosaturated fatty acid? Give an example.
- 6. Give the structure of triacyl glycerol.
- 7. Define saponification number.
- 8. Give the three letter code for valine.
- 9. Why milk casein is said to be a complete protein.
- 10. What is the complementary sequence of nitrogenouse bases for an AGCCGTTAAC fragment of a DNA ?
- 11. Point out the difference between B and Z DNA.

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Part B

Answer any **six** questions.

Each question carries **5** marks.

- 13. Structural configuration. Explain with example .
- 14. Draw the ring structure of fructose.
- 15. Distinguish between reducing and non-reducing sugars with suitable examples .
- 16. Give the structure and functions of Lecithin.
- 17. What are sphingolipids? Give functions.
- 18. Explain the important secondary structures found in proteins.
- 19. Explain the factors that cause denaturation of proteins.
- 20. What are the basic units of DNA?
- 21. State and explain Chargaff"s rule.

(6×5=30)

Part C

Answer any **two** questions. Each question carries **10** marks.

- 22. Explain the classification of carbohydrate with suitable examples.
- 23. Give the structure and functions of cholesterol and ergosterol.
- 24. Describe the structure and functions of collagen.
- 25. Give a detailed account on Clover leaf structure of t RNA.

(2×10=20)

