

23U520

(Pages: 2)

Name:

Reg.No:

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2025

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19UZOL5B08 - BIOCHEMISTRY AND MOLECULAR BIOLOGY

(Zoology - Core Course)

(2019 Admission onwards)

Time : 2.5 Hours

Maximum : 80 Marks

Credit : 4

Part A (Short answer questions)

Answer ***all*** questions. Each question carries 2 marks.

1. Differentiate macro and micromolecules.
2. What is a monosaccharide?
3. Comment on ion exchange chromatography.
4. What is Sanger's method?
5. What are isoenzymes?
6. Comment on beta oxidation of fatty acids.
7. Define electron transport chain.
8. What is priming?
9. What are enhancers?
10. What is poly A addition?
11. What is spliceosome?
12. What is translation?
13. What is aminoacyl tRNA synthetase?
14. What is protein cleavage?
15. What is bacterial conjugation?

(Ceiling: 25 Marks)

Part B (Paragraph questions)

Answer ***all*** questions. Each question carries 5 marks.

16. Write a short note on sucrose.

17. Explain homoglycans with examples.
18. Brief out the classification of amino acids.
19. Write a short note on phosphoinositides.
20. Explain the importance of active sites in enzyme.
21. Explain one gene - one enzyme hypothesis.
22. Explain transcription unit.
23. Write notes on bacteriophage.

(Ceiling: 35 Marks)

Part C (Essay questions)

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

24. Write an essay on chromatography.
25. Elucidate about different types of DNA.
26. Write an essay on genetic code.
27. Write an essay on organization of human genome.

($2 \times 10 = 20$ Marks)
