

19U518

(Pages: 2)

Name: .....

Reg.No: .....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021**

(CBCSS - UG)

**CC19U ZOL5 B08 - BIOCHEMISTRY AND MOLECULAR BIOLOGY**

(Zoology - Core Course)

(2019 Admission - Regular)

Time : 2.5 Hours

Maximum : 80 Marks

Credit : 4

**Part A** (Short answer questions)

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

1. Which discoveries are lead to the flourishing of biochemistry?
2. Comment on dihydroxyacetone.
3. Explain homoglycan. Give two examples.
4. What is polyacrylamide gel electrophoresis?
5. What is competitive inhibition?
6. What is TCA cycle?
7. Define electro chemical gradients.
8. What is transcription?
9. What are enhancers?
10. What is RNA capping?
11. What is spliceosome?
12. What are the components of translation machinery?
13. What are ribosomes?

14. What are pseudogenes?
15. What is transduction?

**(Ceiling: 25 Marks)**

**Part B (Paragraph questions)**

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

16. Write a note on glycosidic bond.
17. Write a note on tertiary structure of proteins.
18. What is Sanger's method?
19. Distinguish between simple and compound lipid.
20. Explain the importance of active sites in enzyme.
21. Explain reverse transcription.
22. Explain RNA polymerase.
23. Differentiate between microsatellites and minisatellites.

**(Ceiling: 35 Marks)**

**Part C (Essay questions)**

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

24. Write an essay on amino acids with special emphasis on structure, classification and properties
25. Write an essay on nucleic acids and its biological importance.
26. Write an essay on DNA replication.
27. Write an essay on regulation of gene expression.

**(2 × 10 = 20 Marks)**

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