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FIFTH SEMESTER (CBCSS-UG) DEGREE EXAMINATION, NOVEMBER 20:

Zoology

ZOL 5B 08T—BIOCHEMISTRY AND MOLECULAR BIOLOGY

(2019 Admission onwards)

Time: Two Hours and a Half

Maximum: 80 Mark

Section A

- I. Short answer questions. Each question carries 2 marks.
 - 1 What are ketoses? Mention example.
 - 2 Comment on type I diabetics.
 - 3 Write a note on isoelectric point.
 - 4 What is HPLC? Write any two applications of HPLC.
 - 5 What are lecithins? Write its function.
 - 6 Write a note glycogenolysis.
 - 7 What is Z-DNA?
 - 8 Write a note on luxury genes.
 - 9 Comment on one gene one enzyme hypothesis.
 - 10 Write a note on gene splicing.
 - 11 What is RNA interferenc?
 - 12 Write an account on the active centers of ribosomes.
 - 13 Comment on transposons.
 - 14 What is satellite DNA?
 - 15 Define transduction.

(Ceiling: 25 marks)

Section B

- II. Paragraph questions. Each question carries 5 marks.
 - 16 Explain polysaccharides. Mention any four biological roles of carbohydrates.
 - 17 Comment on different structural levels of protein.
 - 18 Explain oxidative phosphorylation.

Turn over

- Explain Sanger's method of sequencing of DNA. 19
- Comment on transcription and transcription unit. 20
- Explain the role of different enzymes involved in DNA replication. 21
- Explain splicing, capping and tailing during RNA processing. 22
- 23 Explain the lytic and lysogenic cycle.

Section C

Essay questions. Answer any two questions.

- What are enzymes? Classify enzymes. Write a note on enzyme inhibit 2425
- Explain electron transport chain.
- Explain the properties of the genetic code. Add a note on wobble hypoth 26 27
- What are operons? Explain tryptophan operon and its regulation.

(2)