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Name.....

Reg. No.....

**SIXTH SEMESTER U.G. DEGREE EXAMINATION, MARCH 2024**

(CUCBCSS—UG)

Zoology

ZOL 6B 10—BIOCHEMISTRY

(2018 Admission only)

Time : Three Hours

Maximum : 80 Marks

**Part A**I. One Word Questions. Answer *all* questions :

- 1 Give example for a triose sugar.
- 2 Name a structural polysaccharide found in animals.
- 3 RNA molecules that has catalytic activity.
- 4 What is the end product of glycolysis in an Oxygen deficient muscle ?
- 5 Name the pyrimidine bases present in RNA.
- 6 Expand PAGE.
- 7 Name a macromolecule present in living cells.
- 8 Give an example for aldoses.
- 9 The site of gluconeogenesis in our body .
- 10 Name the coenzyme in transamination reactions.

(10 × 1 = 10 marks)

**Part B**II. Short Answer Questions. Answer any *ten* :

- 11 Write the principle involved in Benedict's test.
- 12 What is Transamination ? Give an example.
- 13 Write the principle of spectrophotometer.
- 14 What are Zwitter ions ?

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- 15 Define redox potential.
- 16 Write any *two* biological functions of Cholesterol.
- 17 Mention any *two* uses of Colorimeter.
- 18 What is a denatured protein ?
- 19 What are Ribozymes ?
- 20 What is B-DNA ?
- 21 What are high energy compounds ? Give example.
- 22 Give the structure of glucose.

### Part C

III. Paragraph Questions. Answer any *five* :

- 23 Give an account of high energy compounds.
- 24 Explain beta oxidation of fatty acids.
- 25 Write an account of major classes of enzymes.
- 26 How are lipids classified ?
- 27 What is meant by competitive inhibition of enzyme action ?
- 28 Enlist the biological functions of /carbohydrates.
- 29 What are the properties of amino acids ?
- 30 Explain the proton gradient and chemiosmotic synthesis of ATP.

### Part D

IV. Essay Questions. Answer any *two* :

- 31 Discuss the deamination, transamination and decarboxylation of amino acids.
- 32 Electron transport chain and Oxidative phosphorylation.
- 33 Describe the structure and classification of Carbohydrates.
- 34 Write an essay on glycolysis.