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# SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2018 (CUCBCSS-UG)

CC15U ZO6 B10 - BIOCHEMISTRY

Zoology - Core Course (2015 Admission)

Time: Three Hours

Maximum: 80 Marks

## Part A

## Answer *all* questions. Each carries 1 mark :

- 1. Name the two kinds of glucose polymers found in starch
- 2. The protein part of an enzyme is called ------
- 3. Expand PAGE
- 4. What are ribozymes
- 5. What are cytochromes
- 6. The formation of glucose from non-carbohydrate precursor substances is known as ------
- 7. Name a non-reducing disaccharide
- 8. What is a zwitterion
- 9. Esters of fatty acids and glycerol are known as ------
- 10. What is a nucleotide

## (10 x 1 = 10 Marks)

#### Part B

Answer any *ten* questions. Each carries 2 marks:

- 11. Diagrammatically represent the structure of an aminoacid
- 12. List out the biological functions of NAD
- 13. Define Crabtree effect
- 14. What is Biuret reaction
- 15. What are Phospholipids
- 16. What is Ionic bond
- 17. What is Kreb's cycle
- 18. Explain the term Transamination
- 19. Classify proteins based on nutritional requirements
- 20. Distinguish between glycosidic bond and peptide bond
- 21. Define Chemiosmotic coupling hypothesis
- 22. What is glycogenolysis

(10 x 2 = 20 Marks)

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#### Part C

Answer any *five* questions. Each carries 6 marks:

- 23. Explain metabolic fate of Pyruvic acid
- 24. Describe different types of Compound lipids
- 25. Comment on different types of Enzyme inhibitions
- 26. Explain the structure of tRNA with appropriate diagram
- 27. Give a brief account of Chromatography and its types
- 28. Briefly explain the steps involved in Beta oxidation
- 29. Write notes on any two high energy compounds
- 30. Enumerate the biological functions of Carbohydrates

 $(5 \times 6 = 30 \text{ Marks})$ 

### Part D

Answer any *two* of the following: Each carries 10 marks:

- 31. Explain the properties, mechanism and theories of enzyme action
- 32. Write an essay on different levels of structural organization of protein
- 33. Give the classification of carbohydrates with examples
- 34. Explain the Catabolism of Amino Acids

 $(2 \times 10 = 20 \text{ Marks})$ 

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