

16U615

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Name.....

Reg. No.....

SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2019

(Regular/Supplementary/Improvement)

(CUCBCSS-UG)

CC15U ZO6 B10 - BIOCHEMISTRY

Zoology - Core Course

(2015 Admission onwards)

Time: Three Hours

Maximum: 80 Marks

I. Answer **all** questions. Each question carries 1 mark.

1. What is a peptide bond?
2. Give examples for saturated and unsaturated fatty acids.
3. Expand PAGE.
4. What are isoprenoids?
5. Name two Co-enzymes.
6. What is a zwitterion?
7. Name two Co-factors.
8. What are lecithins?
9. Name a ribozyme.
10. Give the structure of glycerol.

(10 x 1 = 10 Marks)

II. Answer any **ten** questions. Each question carries 2 marks.

11. Phospholipids.
12. Functions of Lipids.
13. Prostaglandins. Explain the structure.
14. Role of coenzyme.
15. Structure of adenine.
16. Differentiate between nucleoside and nucleotide.
17. C – value paradox.
18. Define isoelectric point.
19. Explain HMP Shunt.
20. Write any two biological roles of cAMP.
21. Write down the principle and procedure of Benedict's test.
22. What are Isoenzymes?

(10 x 2 = 20 Marks)

III. Answer any *five* questions. Each question carries 6 marks.

23. Functional organization of enzymes.
24. Explain the structure of B-DNA.
25. Enlist the biological functions of carbohydrates.
26. Explain Lock and Key hypothesis.
27. Define chromatography and explain in detail column chromatography.
28. Explain Electron Transport system.
29. Classify carbohydrates. Explain glycosidic linkage and reducing property of glucose.
30. Explain the steps involved in beta oxidation.

(5 x 6 = 30 Marks)

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

31. Explain the kinds of enzyme inhibition.
32. Explain the structure of tRNA.
33. Explain catabolism of amino acids.
34. Describe in detail the four levels of protein structure.

(2 x 10 = 20 Marks)
