

Reg. No..... Name :

MSc DEGREE END SEMESTER EXAMINATIONS – NOVEMBER 2015

SEMESTER- 1, SUBJECT: ZOOLOGY

COURSE: P1ZOOT03-BIOCHEMISTRY

Time: Three Hours

Max. Marks: 75

Part A

(Answer any 8 questions. Each carries 2 marks)

1. Distinguish between 'epimerism' and 'anomerism'.
2. What is saponification number?
3. Mention the hemiacetal formation in glucose.
4. What is ketosis?
5. Comment on the function of Prostaglandins.
6. What is sphingolipids?
7. Comment on the Urea cycle.
8. Write a brief note on the structure of t-RNA.
9. Comment on the active site of an enzyme.
10. What is Transamination?
11. Differentiate iso-enzymes and co-enzymes.
12. Write the structure of Thymine.

(2 x 8 = 16)

Part B

(Answer any 7 questions. Each carries 5 marks)

13. Mention the structure of heteroglycans with suitable examples.
14. Describe the secondary structure of protein.
15. Comment on the structure and biological importance of cholesterol.
16. Describe the characteristic features of B-DNA.
17. Comment on fibrous proteins.
18. Explain how glucose is formed from glycogen?
19. Briefly describe the β oxidation of fatty acids.

20. Give a short note on role of minor nutrients.
21. Mention the feedback inhibition of enzyme activity.
22. Mention the pentose phosphate pathway?

(5 x 7 = 35)

Part C

(Answer any 2 questions. Each carries 12 marks)

23. Explain the Michaelis-Menten equation on enzyme kinetics.
24. Give an account on the classification of aminoacids with suitable examples.
25. Describe the catabolism of purines.
26. Discuss the steps involved in glycolysis.

(12 x 2 = 24)
