

**C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, APRIL - 2018**

B.Sc., ZOOLOGY

SEMESTER VI

U15EZL601 – BIOCHEMISTRY (ELECTIVE – II)

Time: Three Hours

Maximum: 75 Marks

SECTION - A (10 X 2 = 20 Marks)

Answer **ALL** Questions.

Explain/Define the Following:

1. Chemical bond.
2. Buffer solution.
3. Enzyme activation.
4. Haemoglobin.
5. Polysaccharides.
6. Cellulose.
7. Peptide Bonds.
8. Purines.
9. Cholesterol.
10. Lecithin.

SECTION - B (5 X 5 = 25 Marks)

Answer **ALL** Questions.

11. a) Explain the structure of an atom.

(Or)

- b) Explain the hydrogen ion concentration in a solution.

12. a) Discuss the properties of enzymes.

(Or)

- b) Explain the mechanism of Co-enzyme action.

13. a) Discuss the classification of oligosaccharides.

(Or)

- b) Briefly explain the structure of glucose.

14. a) Describe the derived proteins.

(Or)

- b) Write a brief note on the inborn errors on amino acid metabolism.

15. a) Write a short note on salient features of fatty acids.

(Or)

- b) Describe the classification of lipids.

SECTION - C (3 X 10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Describe the structure and properties of water.
17. Write an essay on the enzyme.
18. Explain the structure and functions of carbohydrates.
19. Explain the structure and functions of purines and pyrimidines.
20. Write an essay on the lipid metabolism.
