

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

B.Sc., ZOOLOGY

SEMESTER VI

U14EZL601 – BIOCHEMISTRY (ELECTIVE - II)

Time: Three Hours

Maximum: 75 Marks

SECTION - A (10 X 2 = 20 Marks)

Answer **ALL** Questions.

Define/Explain the following:

1. Hydrogen ion concentration.
2. Acid.
3. Energy.
4. Oxidation.
5. Disaccharides.
6. Night blindness.
7. Enzymes.
8. Km constant.
9. Subcellular Fractionation.
10. Centrifugal force.

SECTION - B (5 X 5 = 25 Marks)

Answer **ALL** Questions.

11. a) List out the properties of water.

(Or)

- b) Comment on the role of Buffers.

12. a) Write an account on Enthalpy.

(Or)

- b) Explain redox reaction.

13. a) Give a brief note on primary structure of proteins.

(Or)

- b) Comment on the deficiency symptoms of Vitamin D.

14. a) List out the physico-chemical properties of enzymes.

(Or)

- b) Briefly explain the factors affecting the enzyme activity.

15. a) Explain the principle of electrophoresis.

(Or)

- b) Give an account on the biochemistry of antibiotics.

SECTION - C (3 X 10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Explain the functions of electrolytes.
17. Explain briefly the free energy concept.
18. Write an account on water soluble vitamins.
19. Classify enzymes with examples.
20. Explain the separation of biological materials by any one of the methods of chromatography.
