

C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, NOVEMBER - 2018
B.Sc., CHEMISTRY
SEMESTER III
U15ACH302 – BIOCHEMISTRY – I (ALLIED)

Time: Three Hours

Maximum: 60 Marks

SECTION - A (10 X 1 = 10 Marks)

Answer **ALL** Questions.

1. What are carbohydrates?
2. Draw the structure of starch.
3. What is a peptide bond?
4. What are proteins?
5. Mention the classification of fatty acids.
6. Give any two examples for essential fatty acids.
7. Define nucleoside.
8. What is called RNA?
9. Define Vitamin.
10. Mention any one biological function of Na and Ca.

SECTION - B (5 X 4 = 20 Marks)

Answer **ALL** Questions.

11. a) "Glucose and Fructose give the same osazone". Reason out.
(Or)
b) Discuss the structure of sucrose.

12. a) Write a note on the classification of proteins.

(Or)

- b) Write a note on the properties of amino acids.

13. a) What are called bile acids? Mention the importance of it.

(Or)

- b) List out the structure and properties of any two saturated fatty acids.

14. a) Write a note on nucleotide and polynucleotide.

(Or)

- b) List out the differences between DNA and RNA.

15. a) Write the sources and biological functions of vitamin A & C.

(Or)

- b) Mention the biological functions of P and Mg.

SECTION - C (3 X 10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Discuss the structure of cellulose.
17. Write a note on the secondary structure of protein.
18. Discuss the structure of cholesterol.
19. Describe the double helical model of DNA and its biological functions.
20. Write a brief outline of sources and biological functions of vitamins B, D and E.
