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The Assam Royal Global University, Guwahati

Royal School of Bio-Sciences
B.Sc. Biochemistry 1st Semester
Semester End Examination, January 2023
Course Title: Molecules of Life
Course Code: BCH152C101

Time: 3 Hours

Maximum Marks: 70

7 x 2

Note: Attempt all questions as per instructions given. The figures in the right-hand margin indicate marks. Section - A 2 x 8 1. Attempt all questions. (Maximum word limit 50) a. Name all fat soluble vitamins. b. What do you mean by hypervitaminosis? c. Define optical activity. d. What are asymmetric carbon? e. What are cerebrosides? f. Name 4 most important gangliosides present in brain. g. Draw the general structure of amino acids. h. Why proteins are known as working horses of the cells? Section - B 2. Attempt any two of the following: 6 x 2 Write a note on chemical foundations of life. b. Write a note on vitamins. a. "Water as a reactant" Justify. 7 x 2 3. Attempt any two of the following: a. Write a note on polysaccharides with examples. b. Write a note on disaccharides with examples. c. Write a note on monosaccharides with example. 7 x 2 4. Attempt any two of the following: a. Write a note on classification of fatty acids and write a short note on glycolipids. b. Write a note on lipid classification along with its function. c. Write a note on phospholipids.

Attempt any two of the following:

e. Discuss the classification of proteins.

c. Discuss the features of double helical DNA.

d. Discuss the physical and chemical properties of amino acid.

5.