

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD

C2 Review test: 20th April 2022

Program Code & Semester: B.Tech. IT-VI Sem.

Paper Title: Eng. Biology

Paper Setter: Dr. Sintu Kumar Samanta

Max Marks: 30

Duration: 50 min

Answer all the questions. Each question carries 2 marks

- (1) In which macromolecules, we find phosphodiester, glycosidic, and peptide bonds to form? (2) What are stereoisomers? (3) Write the names of the amino acids that are abbreviated as Y, K, W, and D. (4) How a disulfide bond is formed in a protein? (5) Write the function of Antigen presenting cells (APC) in generating immune response. (6) What is denaturation of a protein? (7) When you will call a carbon atom as a Chiral carbon/Chiral centre? (8) What are the differences between Primary and Secondary antibody response? (9) What is the function of Memory cell in inducing immune response? (10) How Alpha helix structure of protein is differed from the Beta pleated sheet structure? (11) What is the function of the hinge region of an antibody? (12) How does Innate immunity differ from Adaptive immunity? (13) What are the functions of Fc and Fab fragments of an antibody? (14) How an ester is formed? (15) Out of the 3 carbon atoms (highlighted in blue), which one is chiral centre?

