Department of Biochemistry and Molecular Biology Shahjalal University of Science and Technology Course Title: Introductory Biochemistry (BMB 121)

- What is mutarotation? Give the name of two cyclic form of D-glucose with their structure. 1+1
- 2. How monosaccharides react as a reducing agent? 2
- 3. Write the structure of following hexose derivatives. 1×4=4 Muramic acid, β-D-Mannosamine, β-D-Glucose, β-D-Glucosamine
- 4. What is Glycosidic bond? 1
- 5. Write down the structure of maltose, trehalose and sucrose. $1 \times 3=3$
- 6. Write down the biological function of polysaccharide.
- 7. What are the major structural elements in biological fluid?
- 8. Write down the classification of lipid.
- 9. What is the contribution of Sanger and Thompson in diabetic patients? 2

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3. Why the bond angle of NH3 is 1000 to the handale of the neighbor angular angular of 109.280 3 2. What is hyberdization? before the hybridication of Elf and cor. 1. What is the difference between growne of covalent bond