## Term Test Biochemistry and Molecular Biology Department ShahJalal University of Science and Technology Course Title: Introductory Biochemistry

1. Fill in the blanks with appropriate words.  (a) Carbohydrates are polyhydroxy orsubstances
(a) Carbonydrates are polynydroxy orsubstances (b) Insoluble carbohydrate polymers serve as andelements in the cell walls of bacteria and plants
cells.
(c) The and of D-glucose interconvert in aqueous solution by a process called
(d) Glucose and other sugars capable of reducing or ion are called reducing sugars.
(e) Blood glucose concentration is commonly determined by measuring the amount of produced in the reaction catalyzed
by
(f) Disaccharides (such as maltose, lactose, and sucrose) consist of two joined covalently by an
(g) generally do not have definite molecular weights and serve as storage forms of that are used as fuels.
(h)is especially abundant in the liver and it is also present in
(i) The rigid component of bacterial cell walls is a heteropolymer of alternating (1n4)-linked and
(j) and are major structural elements of biological membranes.
2. Write down the structure of following components. $1\times4=4.0$
Arachidonic acid, N – acetylmuramic acid, phosphatidylcholine, Sphingomyeline.
3. What is the difference between polysaccharide and protein on the basis of assembly mechanism of this two type of polymers? 1.0