A-3032
B. Sc. (Sem. III) Examination
March / April – 2015
Bioscience : Paper - I
(Biochemistry)

Time : 2 Hours] [Total Marks : 50
Instructions :
(1)

(2) Draw neat and labelled diagram wherever necessary.
(3) Figures to the right indicate full marks of the question.

1 Answer the following question in two / three lines : 12
(1) Give chemical structure of aldotriose and its importance.
(2) Write two sulphur containing amino acids and its importance.
(3) Write general structure of amino acid.
(4) Define : Denaturation of protein.
(5) What is Osazone test ? Write its importance.
(6) What is heteropolysaccharide ? Give any two examples.

2 Explain the formation of Glycosidic bond and discuss 14
chemical structure and importance of Disaccharides.

OR

2 Write detailed note on chemical structure and importance 14
of polysaccharides.

A-3032] 1 [Contd...
3 Answer any two of the following:
(1) Effects of temperature and pH on Enzyme - Substrate reaction.
(2) Biomedical importance of lipid.
(3) Enzyme nomenclature and classification.

4 Write short notes: (any two)
(1) Essential amino acids
(2) Triglycerides
(3) Saturated and unsaturated fatty acids.