



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

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दृशायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : Second Year B. Sc. (Sem. III)</p> <p>Name of the Subject : Bioscience : Paper - I</p> <p>Subject Code No. : 3 0 3 3 Section No. (1, 2,.....): Nil</p>	<p>Seat No. : <input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/><input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; height: 80px; display: flex; align-items: center; justify-content: center; margin-top: 10px;">Student's Signature</div>
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(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.

- 3** Answer any **two** of the following : **14**
- (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**) **10**
- (1) Essential amino acids
 - (2) Triglycerides
 - (3) Saturated and unsaturated fatty acids.
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