



AC-1678

**B. Sc. / M. Sc. (Sem. II) (Integrated Biotech.)  
(CBCS) Examination**

April/May – 2015

**Core-I, Course-I : BT-03 : Basic Biochemistry**

Time : Hours]

[Total Marks : 50

**Instructions :**

(1)

नीचे दशांश देव निशानीवाणी विगतो उत्तरवडी पर अवश्य बजवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. Sc. / M. Sc. (Sem. II) (Integrated Biotech.) (CBCS)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Core-I, Course-I : BT-03 : Basic Biochemistry"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="6"/> <input type="text" value="7"/> <input type="text" value="8"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	

- (2) Figures to the right indicate full marks.  
(3) Draw neat and labelled diagrams wherever necessary.

**Q: 1 Answer following questions in short. (08)**

- 1) Define: Zwitter ion
- 2) What do you meant by Epimer?
- 3) Define reducing sugar with example.
- 4) What do you meant by chromoprotein?
- 5) Define non essential amino acids?
- 6) State Chargaff's rule.
- 7) Give the structural formulae of sugars present in nucleic acids.
- 8) Define: Saponification value

**Q: 2 Answer any two of following. (14)**

- 1) Give the classification of carbohydrates in detail.
- 2) a) Write a note on glycosidic linkage  
b) Give the detail regarding reaction of monosaccharide with phenyl hydrazine
- 3) Write a note on different forms of DNA duplex.

**Q: 3 Answer any two of following. (14)**

- 1) Give an account of t-RNA in detail.
- 2) a) List out the functions of nucleotide.  
b) Write a note on nucleoside
- 3) Explain: Proteins are versatile in their functions.

**Q: 4 Answer any two of following. (14)**

- 1) What are fatty acids? Classify them with examples.
  - 2) Give an account of phospholipids.
  - 3) Classify the protein molecules on the basis of their metabolic activity.
-