



DPP-1670

**B. Sc. / M. Sc. Integrated Biotechnology Course
(Sem. II) (New) (CBCS) Examination**

March / April - 2016

**BT-03 : Basic Biochemistry
(Core Course - 1)**

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दृष्टावैव निशानियाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
☛ B. Sc. / M. Sc. Integrated Biotechnology Course (Sem. II) (New) (CBCS)	<input type="text"/>
Name of the Subject :	<input type="text"/>
☛ BT-03 : Basic Biochemistry (Core Course - 1)	<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="0"/>	<input type="text"/>
☛ Section No. (1, 2,.....): <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

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

1 Answer the following in short : (Any four) 8

- (1) Define chromoprotein with example.
- (2) State Chargaff's rule.
- (3) What do you meant by ganglioside?
- (4) Name the monosaccharide units formed when starch and sucrose are hydrolysed:
- (5) Give the structure of maltose and identify the glycosidic linkage.

2 Answer any two of following : 14

- (1) Discuss the structures and functions of heteropolysaccharides.
- (2) Define carbohydrates and classify them.
- (3) Give the properties of proteins.

3 Answer any **two** of following : **14**

- (1) Give an account of secondary structure of protein.
- (2) Discuss biological functions of lipids. .
- (3) Classify amino acids on the basis of polarity of side chain.

4 Answer any **two** of following : **14**

- (1) Explain Watson and Crick structure of DNA.
 - (2) Discuss the various properties of DNA.
 - (3) Compare DNA and RNA.
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