



**SB-2722**

**M. Sc. (Part-I) (Biosciences) (Sem. II) Examination**  
**March / April – 2011**  
**BIOS-202 : Biochemistry**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवडी पर अवश्य वपनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<b>M. SC. (PART-I) (BIOSCIENCES) (SEM. II)</b>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<b>BIOS-202 : BIOCHEMISTRY</b>	<input type="text"/>
Subject Code No. : <input type="text" value="2"/> <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="2"/>	<input type="text"/>
Section No. (1, 2,...): <input type="text" value="Nil"/>	
Student's Signature	

- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labelled diagrams whenever necessary.
- (4) Both sections must be written in separate answer books.

1 Write on any two : 18

- (a) Various Acid-base concepts with their limitations.
- (b) Define pH. Explain the theory of pH scale and biological significance of pH.
- (c) Explain molarity, molality and normality with examples.

2 Describe (any two) : 18

- (a) Define colloids. Describe various properties of colloid.
- (b) Explain stereoisomerism giving examples.
- (c) Beta-oxidation of fatty acids.

- 3** Attempt (any two) : **18**
- (a) Enzymology of Glycolytic pathway.
  - (b) Regulation of citric acid cycle.
  - (c) HMP shunt pathway.
- 4** Write notes on (any two) **16**
- (a) Degradation of amino acids.
  - (b) Role of RNAs in protein synthesis.
  - (c) Urea cycle.
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