



RE-3512

M. Sc. (Part - I) Examination

April / May – 2010

Bioscience : Paper - II

(Biochemistry & Biophysics)

Time : 3 Hours]

[Total Marks : 52

Instructions :

(1)

नीचे दृश्यावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. SC. - 1"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="BIOSCIENCE - 2"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="5"/> <input type="text" value="1"/> <input type="text" value="2"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="1&2"/>	

- (2) All questions carry equal marks.
- (3) Answer to both sections must be written in separate answer books.
- (4) Attempt any two questions from each section.

SECTION - I

1 What is isomerism? Explain geometrical isomerism citing suitable examples.

OR

1 Write notes on :

- (a) Significance of HMP pathway
- (b) Transamination of amino acids

2 Write notes on :

- (a) Urea cycle
- (b) Importance of gluconeogenesis

OR

2 Describe β -Oxidation of fatty acids and comment on its energetics.

SECTION - II

- 3 Define isotopes? Discuss the importance of radioactive isotopes in biological research.

OR

- 3 Write notes on :

- (a) Bubble chamber
- (b) Radio waves
- (c) Pores Vs carrier hypothesis.

- 4 Describe the structure and functions of human eye. Add a note on colour vision.

OR

- 4 Write notes on :

- (a) Half life radioactive elements and geological age determination
- (b) Rutherford's experiment proving nuclear atom.
