



RE-3510

M. Sc. (Part - I) Examination

April / May – 2010

Biosciences : Paper - I

(Cell Biology, Genetics & Elements of Molecular Biology)

Time : 3 Hours]

[Total Marks : 52

Instructions :

(1)

नीचे दर्शाविए ← 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"/>
← M. SC. - 1	<input type="text"/>
Name of the Subject :	<input type="text"/>
← BIOSCIENCES - 1	<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="0"/>	← Section No. (1, 2,.....) : <input type="text" value="1&2"/>
	<input type="text" value="Student's Signature"/>

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

SECTION - I

1 Describe ultra structure of chloroplast along with important functions. Add a note to its autonomy.

OR

- 1 Write notes on :
 - (a) Cell cycle
 - (b) Ribosomes.
- 2 Write a detailed note on 'Cancer and chromosome' with suitable examples.

OR

- 2 Write notes on (any three)
 - (a) NOR Banding
 - (b) t (9;22)
 - (c) Microtomes
 - (d) Functions of peroxisomes.

SECTION - II

- 3 Give an illustrative account of recent techniques used in molecular biology.

OR

- 3 Write notes on :
- (a) Genetic engineering
 - (b) DNA repair
- 4 Write a detailed account of Mendelian principles of inheritance.

OR

- 4 Write notes on :
- (a) Operon concept
 - (b) Transduction
 - (c) Gene probe.
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