



SB-3474

M. Sc. (Part - I) Examination
March / April - 2011
Medical Technology : Paper - IV
(Microbial Genetics)

Time : Hours]

[Total Marks : 54

Instructions :

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. 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. (Part - 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Medical Technology : Paper - 4"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="4"/> <input type="text" value="7"/> <input type="text" value="4"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	<input type="text"/>
	<input type="text" value="Student's Signature"/>

(2) Draw figures whenever **necessary**.

1 What is cDNA ? Write about its importance in Microbial genetics. 15

OR

1 What is the function of reverse transcriptase ? Write about multiplication of RNA. 15

2 Write any **two** : 15
(a) Mandel's Law (b) FISH (c) Genetic code.

3 Describe chemical and molecular basis of mutation. 12

OR

3 Effect of mutation on transcription and translation processes.

4 Write short notes : (Any **three**) 12

- (a) Long Terminal Repeats.
- (b) Transposones and insertion sequences.
- (c) DNA as a probe in diagnostic tests.
- (d) Transformation in bacteria.