



S-2668

M. Sc. (Sem. I) (Medical Technology) Examination
March / April – 2011
MT-104 : Microbial Genetics

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशांशके निशानीवाणी विगतो उत्तरवडी पर अवश्य कभवी. 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. (Sem. 1) (Medical Technology)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MT-104 : Microbial Genetics"/>	<input type="text"/>
Subject Code No. : <input type="text" value="2"/> <input type="text" value="6"/> <input type="text" value="6"/> <input type="text" value="8"/>	Section No. (1, 2.....) : <input type="text" value="NIL"/>
Student's Signature	

- (2) Draw figures whenever necessary
(3) Figures to the **right** indicate total marks.

- 1 (a) Effect of mutation on translation process. 18
(b) Recombination in viral chromosomes.
- 2 Write any **two** : 18
(a) Compare structure of bacterial and eukaryotic chromosomes.
(b) Functions of chloroplast DNA.
(c) Structure of viral chromosome.
- 3 Write any **three** : 18
(a) Describe the packaging of DNA in prokaryotic cell.
(b) Functions of plasmid.
(c) Law of independent assortment.
(d) Conjugative transposones.
- 4 Write in brief any **four** : 16
(a) One gene one polypeptide hypothesis.
(b) Genetic mapping.
(c) Replication of plasmid.
(d) What is restriction -modification system.