



S-2616

M. Sc. (Part - I) (Microbiology) Examination

March / April - 2011

MB - 101 : Taxonomy, Virology & Cytology

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
M. Sc. (Part - 1) (Microbiology)	<input type="text"/>
Name of the Subject :	<input type="text"/>
MB - 101 : Taxonomy, Virology & Cytology	<input type="text"/>
Subject Code No. : <input type="text"/> 2 <input type="text"/> 6 <input type="text"/> 1 <input type="text"/> 6	<input type="text"/>
Section No. (1, 2,.....): <input type="text"/> Nil	
Student's Signature	

- (2) Figures to the **right** indicate full marks of the question.
- (3) Draw neat and labelled diagrams whenever **necessary**.
- 1 Describe in detail about any **three** : 18
- (a) Baltimore scheme of viral classification.
- (b) Importance and functions of culture collection centre.
- (c) Pros and cons of polyphasic taxonomy.
- (d) Various methods of classification of bacteria.
- 2 Attempt any **three** : 18
- (a) Describe about structure and organization of viral RNA genome.
- (b) Describe about replication process in DNA viruses.
- (c) Describe the process of formation of complex capsid in viruses.
- (d) Discuss the general features of oncogenesis induced by viruses.
- 3 Explain in detail any **three** : 18
- (a) Phage Mu-1 verses Phage P1
- (b) Phage borne genes
- (c) Phage T4
- (d) Silent features temperate phages.
- 4 Write notes on any **two** : 16
- (a) Structure and functions of nucleus
- (b) Lysosomes
- (c) Mitochondria.