

Seat No. : _____

LE-109

April-2014

B.Sc. (Sem.-VI)

**CC-308 : Microbiology
(Virology and Mycology)**

Time : 3 Hours]

[Max. Marks : 70

- Instructions :** (1) Draw figures wherever necessary.
(2) Figures to the right indicate marks.

1. Answer the following : (Any **two**) **14**
- (1) Describe the structural organization of viruses
 - (2) Give general account of cultivation of animal viruses.
 - (3) Explain cryptogram system of viral classification.
 - (4) Describe oncogenic viruses.
2. Explain the following : (Any **two**) **14**
- (1) One step growth curve and its significance
 - (2) Mechanism of establishment of lysogeny in lambda phage
 - (3) Replication of plant viruses
 - (4) Consequences of viral infection
3. Describe the following : (Any **two**) **14**
- (1) Hyphal modifications in fungi
 - (2) Methods of preservation of fungi
 - (3) Secondary metabolites of fungi and their significance
 - (4) General account of plant diseases caused by fungi

4. Explain the following : (Any **two**) **14**
- (1) Criteria used for fungal classification
 - (2) Sexual reproduction in Phycomycetes
 - (3) Asexual reproduction in Ascomycetes
 - (4) General life cycle of a typical slime mold

5. Answer the following : (Not more than **two** lines) **14**
- (1) What are prions ?
 - (2) Differentiate between viroid and virusoid.
 - (3) Give example of a circular single stranded DNA virus.
 - (4) What do you mean by persistent infection ?
 - (5) What is prophage ?
 - (6) Give one example of asexual exospore of fungi.
 - (7) What is coenocytic mycelium ?
 - (8) Name a fungal disease caused by yeasts in animals.
 - (9) What do you mean by parasexual cycle ?
 - (10) What are plus strand RNAs ?
 - (11) Differentiate between planospores and aplanospores.
 - (12) What is a basidium ?
 - (13) What is karyogamy ?
 - (14) What are virulent phages ?
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