Seat No. : _____

AC-103

April-2016

B.Sc., Sem.-VI

CC-308 : Microbiology

Time : 3 Hours] **[Max. Marks : 70**

Instructions : Draw figures wherever necessary.

1. Explain the following : (Any **two**) **(14)**
   (1) General structural properties of viruses.
   (2) Cryptogram system of viral classification.
   (3) Methods of enumeration of viruses.
   (4) Latent viruses.

2. Describe the following : (Any **two**) **(14)**
   (1) One step growth curve and its significance.
   (2) Replication of lambda phage.
   (3) Consequences of viral infection.
   (4) Tobacco mosoic virus.

3. Explain the following : (Any **two**). **(14)**
   (1) Hyphal modifications.
   (2) Techniques of preservation of fungi.
   (3) Secondary metabolites of fungi.
   (4) Symptoms of fungal plant diseases.

4. Explain the following : (Any **two**) **(14)**
   (1) Asexual reproduction in fungi.
   (2) Criteria used for fungal classification.
   (3) Para sexual cycle and its significance.
   (4) General characters of slime molds.

5. Answer in short. (not more than **two** lines) **(14)**

(a) What is plus strand RNA ?

(b) What is the difference between virusoid and viroid.

(c) Give example of a single stranded DNA phage.

(d) What are planogametes ?

(e) Define oncogenic viruses .

(f) What is meant by homothallic fungi ?

(g) Give example of a fungal spore produced by sexual reproduction.

(h) What is meant by phage conversion ?

(i) Give example of a fungal human pathogen and disease caused by it.

(j) Give full form of PCNV ?

(k) What is meant by coenocytic mycelium ?

(l) What is pycnidium ?

(m) What are clamp connections ?

(n) Define secondary cell lines.