

M.Sc. (Microbiology) (CBCS Pattern) Semester-IV
PSMBT-14 - Paper-II : Virology

P. Pages : 1

Time : Three Hours



GUG/S/25/11409

Max. Marks : 80

Notes : 1. All questions are compulsory and carries equal marks.

1. Discuss in detail Nomenclature and classification of viruses. **16**

OR

a) Write a brief note on Capsid symmetry. **8**

b) Describe a brief account on multiplication of viruses. **8**

2. Explain the methods used for cultivation of viruses in detail. **16**

OR

a) Write a brief note on serological method used for purification of viruses. **8**

b) Describe physical method used for assay of viruses. **8**

3. Describe structure and explain the life cycle of bacteriophage T4. **16**

OR

a) Describe the life cycle of TMV. **8**

b) Write a short note on transmission of plant viruses. **8**

4. Describe pathogenesis, diagnosis and treatment of HIV virus. **16**

OR

a) Describe classification and nomenclature of animal viruses. **8**

b) Write a brief note on viral vaccines. **8**

5. Write a short note on:

a) Prions. **4**

b) Plaque method. **4**

c) Viral diseases and their control. **4**

d) Interferons. **4**
