

B.Sc. CBCS Pattern Semester-V
USMBT-11 - DSE Paper-III - Microbiology-I - Virology

P. Pages : 2

Time : Three Hours



GUG/W/23/13108

Max. Marks : 50

1. Explain the methods of virus cultivation. **10**
- OR**
- a) Explain Icosahedral symmetry of virus. **2½**
- b) Describe any one method of virus isolation. **2½**
- c) Write about Virioids. **2½**
- d) Write general properties of virus. **2½**
2. Describe the Lytic cycle of virus multiplication. **10**
- OR**
- a) Explain the horizontal transmission of virus **2½**
- b) Give the classification of Virus. **2½**
- c) Give the nomenclature of virus. **2½**
- d) Describe the lysogenic cycle. **2½**
3. Write about different types of DNA and RNA virus. **10**
- OR**
- a) Write about oncogenesis. **2½**
- b) Write the use of viral vectors in cloning. **2½**
- c) Explain the mode action of interferon. **2½**
- d) Write about oncogenic virus. **2½**
4. Describe the prevention and control of SARS-CoV disease. **10**
- OR**
- a) Write about influenza virus. **2½**
- b) Write about viral vaccine. **2½**
- c) Write about MERS-CoV. **2½**
- d) Explain the general principle of viral vaccine. **2½**

5. Answer **any 10** of the following (1 mark each)

10

- a) What is prions?
- b) What is satellite virus?
- c) What is capsid?
- d) What is bacteriophage?
- e) What is the full form of TMV?
- f) What is the full form of HIV?
- g) What is oncogenic virus?
- h) Name any DNA virus.
- i) What is interferon?
- j) What is nCoV-19?
- k) Give the example of viral vaccine.
- l) What is hepatitis virus?
