

AQ - 1019

Third Semester M. Sc. (Part - II) (CBCS)
Examination

MICROBIOLOGY

Paper - X
(Virology)

P. Pages : 3

Time : Three Hours]

[Max. Marks : 80

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- Note :** (1) All questions are compulsory and carry equal marks.
(2) Draw a neat labelled diagrams and give suitable example, wherever necessary.

1. Discuss general properties of viruses in detail.

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OR

Comment on the following :—

- (a) Viral assay 8
(b) Multiplication of bacteriophages. 8
2. Write notes on the following :—
- (a) Laboratory diagnosis of viral infection. 8
(b) Immunoprophylaxis. 8

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OR

- (c) Nomenclature and classification of interferons. 8
- (d) Molecular basis of antiviral state. 8

3. (a) Discuss different methods of tissue culture used for virus cultivation. 8
- (b) Comment briefly on detection of virus protein. 8

OR

- (c) Describe microscopy for laboratory diagnosis of viral infection. 8
- (d) Write on serological techniques of laboratory diagnosis of viral infections. 8

4. Write the detailed account of laboratory diagnosis and immunology of Picorna viruses.

OR

Describe the structure and pathogenesis of Herpes viruses. 16

5. Discuss in detail about the following :—

- (a) Structure of Arena viruses. 8
- (b) Pathogenesis of orthomyxoviruses. 8

OR

- (c) Laboratory diagnosis of Hepatitis virus. 8
- (d) Immunology of Arboviruses. 8

