DF-1498
M. Sc. (Medical Laboratory Technology) (Part-III) (Sem. III) Examination
March / April – 2016
MLT-303 : Clinical Including Systemic Virology

Time : 3 Hours] [Total Marks : 70

Instructions :
(1) Fillup strictly the details of ☑️ signs on your answer book.
Name of the Examination :
M. SC. (MEDICAL LABORATORY TECHNOLOGY) (PART-III) (SEM. III)
Name of the Subject :
MLT-303 : CLINICAL INCLUDING SYSTEMIC VIROLOGY
Subject Code No. : ☐️☐️☐️ ☐️[Section No. (1, 2,.....)] ☐️

(2) Answer all the questions in serial order only.
(3) Draw labeled diagrams wherever required.
(4) Figures to the right indicate full marks of the question.

1. Answer ANY TWO in detail: 18
   a) Describe the routes of transmission of Human Immunodeficiency Virus (HIV). Add a note on the laboratory diagnosis of HIV infection.
   b) Pathogenesis of viral infection. Also add a note on host response to virus infection.
   c) Classify various Hepatitis viruses. Describe in detail the morphology, pathogenesis and laboratory diagnosis of Hepatitis B virus.

2. Write briefly on ANY THREE: 18
   a) Viral multiplication cycle
   b) Molecular diagnostic methods in virology
   c) Morphology of virus
   d) Viral vaccines

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3. **Differentiate in tabular form (ANY THREE):**
   a) Orthomyxovirus and Paramyxovirus
   b) Street virus and Fixed rabies virus
   c) Salk vaccine and Sabin vaccine
   d) Antigenic drift and antigenic shift

4. **Write notes on ANY TWO:**
   a) Enumerate various mosquito-borne human viral diseases. Describe any one in detail.
   b) Bacteriophage: Definition, Morphology & Significance
   c) Viruses causing gastroenteritis. Describe any one in detail.