

PG Degree Examinations in Microbiology (MD) - May 2013

Paper III - Virology & Parasitology

Time: 3 hrs

Max marks:100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays: (20)

1. Name the viruses included in the enterovirus group of the family picornaviridae. Describe the morphology, antigenic properties, pathogenesis and laboratory diagnosis of poliovirus.

Short essays: (8x10=80)

2. Describe the lytic cycle of bacteriophage.
3. Classify human herpes viruses. Describe pathogenesis and laboratory diagnosis of Epstein-Barr virus.
4. Describe in detail the serological demonstration of viral markers which are helpful in specific diagnosis of hepatitis-B.
5. Name the liver flukes. Describe the morphology, life cycle and pathogenicity of fasciola hepatica.
6. Describe the life cycle, pathogenesis and laboratory diagnosis of trichinella spiralis.
7. Name the causative organism of subcutaneous filariasis. Describe in detail about Loa loa.
8. Describe the clinical features, pathology and laboratory diagnosis of the disease kala azar.
9. Various cell cultures used in virology.
