

**THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY**

[MD 0723]

**JULY 2023  
(MAY 2023 EXAM SESSION)**

**Sub. Code: 2016**

**M.D. DEGREE EXAMINATION  
BRANCH IV – MICROBIOLOGY**

**PAPER III – VIROLOGY AND PARASITOLOGY**

*Q.P. Code: 202016*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Essay: (2 x 15 = 30)**

1. Explain in detail about the Morphology, Antigenic characteristics, Clinical features, Pathogenesis and Lab diagnosis of HIV virus. Write in detail about the Algorithm of Lab diagnosis of HIV.
2. Classify Malarial parasites. Explain in detail about the Morphology, Life cycle, Clinical features, Pathogenesis, Lab diagnosis of Plasmodium falciparum. Add a note on how it differs from Plasmodium vivax and ovale.

**II. Short notes: (10 x 5 = 50)**

1. Corona virus and its mutational changes. Add a note on epidemics caused by Corona virus.
2. Explain in detail about viral culture methods and detection of viral growth in cell culture.
3. Viral Hemorrhagic Fever.
4. Rabies prophylaxis.
5. Explain in brief about the Morphology, Antigenic features of Hepatitis B and add a note on Vaccination.
6. Toxoplasma gondii.
7. Stool concentration techniques.
8. Endemic hematuria.
9. Hymenolepsis nana.
10. Filarial worms.

**III. Reasoning Out: (4 x 5 = 20)**

1. Thrombocytopenia is a feature of Dengue fever.

... 2 ...

2. Primary Varicella antibodies are not protective in Reactivation.
3. Microbiological diagnosis should be included in children with Nocturnal enuresis.
4. In Amoebic liver abscess only trophozoites are seen.

\*\*\*\*\*

**[MD 0723]**