

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

**[MD 0524]**

**MAY 2024**

**Sub. Code: 4011**

**M.D. DEGREE EXAMINATION**

**BRANCH IV – MICROBIOLOGY**

**PAPER III – VIROLOGY, PARASITOLOGY AND MYCOLOGY**

***Q.P. Code: 204011***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Essay:**

**(2 x 15 = 30)**

1. Enumerate the viruses infecting the central nervous system. Discuss about pathogenesis, laboratory diagnosis and post exposure prophylaxis of Rabies.
2. Enumerate the parasites causing diarrhea in HIV/AIDS patients. Discuss in detail the life cycle, pathogenesis and treatment of cryptosporidiosis.

**II. Short notes:**

**(10 x 5 = 50)**

1. Vaccine strategies against malaria.
2. Post exposure prophylaxis for HIV.
3. Methods of cultivation of parasites.
4. Darling's disease.
5. Immuno diagnosis in parasitic infection.
6. Epidemiology of poliomyelitis.
7. Dead end parasitic infection.
8. Mycetoma.
9. River blindness.
10. Immunoprophylaxis of influenza.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Tropical pulmonary Eosinophilia is seen in lymphatic filariasis.
2. Mutations in CARD9 gene predisposes to recurrent mucocutaneous Candidiasis.
3. Non lipid containing viruses are generally resistant to ether.
4. Leishmanin testing is negative in active cases of Kala-azar.

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