

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

[MD 1022]

OCTOBER 2022

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. Describe the pathogenesis and laboratory diagnosis of rabies. Add a note on pre- and post- exposure prophylaxis for rabies prevention.
2. List out the parasitic agent causing anemia. Mention the life cycle, pathogenesis and laboratory diagnosis of *Ancylostoma duodenale*. Brief about public health importance of Hookworm infection.

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

1. Chagas disease.
2. *Plasmodium knowlesi*.
3. Laboratory diagnosis of Hepatitis B.
4. Hydatid cyst.
5. Varicella zoster virus.
6. *Molluscum contagiosum*.
7. Role of interferons in viral infections.
8. Chikungunya fever.
9. Prion disease.
10. *Enterobius vermicularis*.

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

1. Normocytic normochromic anaemia is usually seen in malaria.
2. Foul smelling profuse diarrhoea is seen in Giardiasis.
3. Pregnant women should not handle cat litter box.
4. Saline and iodine wet mounts are done on stool samples sent to the parasitology laboratory.
