

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. Write in detail about various laboratory methods used for viral diagnosis.
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. Von-Magnus phenomenon.
2. Sella's technique.
3. IMN (Infectious mononucleosis).
4. Oncogenic DNA viruses.
5. Plaque reduction neutralization test.
6. Laboratory diagnosis of Genital flagellate.
7. Bachman test.
8. Winterbottom sign.
9. Dead end parasitic infections.
10. DEC provocation test.

III. Reasoning Out:

(4 x 5 = 20)

1. Parvoviral infection during Pregnancy leads to Hydrops foetalis.
2. Tzank smear is not specific for diagnosis and differentiate HSV 1 and HSV 2.
3. Secondary Exo-erythrocytic cycle is absent in *Plasmodium falciparum*.
4. Acid-Fast staining is important in opportunistic infection in HIV positive patient.
