

MICROBIOLOGY
PAPER-III

Time: 3 hours
Max. Marks:100

MICRO/J/20/18/III

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. Enumerate hepatotropic viruses. Discuss laboratory diagnosis and prophylaxis of Hepatitis B virus. 2+(4+4)
2. Describe laboratory diagnosis of Rabies. Discuss prophylaxis against Rabies. 5+5
3. Describe properties of Corona Viruses. Discuss pathogenesis, clinical syndrome and laboratory diagnosis of SARS-CoV-2. 2+(3+2+3)
4. Enumerate infections caused by Human Herpes Viruses. Describe clinical syndrome caused by varicella zoster virus and its laboratory diagnosis. 2+(3+5)
5. Significance of viral load in diagnostic microbiology with examples. 10
6. Describe epidemiology and life cycle of Toxoplasma gondii. Discuss the laboratory diagnosis of toxoplasmosis. (2+2)+6
7. Pathogenicity, clinical features and laboratory diagnosis of hookworm infections. 2+2+6
8. Discuss virulence factors of Entamoeba histolytica. Describe pathogenesis and laboratory diagnosis of amoebic liver abscess. 4+(3+3)
9. Recent advances in the diagnosis of parasitic infections. 10
10. What are the intestinal flagellates? Describe the clinical features and laboratory diagnosis of a pathogenic intestinal flagellate. 2+(3+5)
