

MICROBIOLOGY

PAPER-III

MICRO/D/18/18/III

Time: 3 hours
Max. Marks:100

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. Early infant diagnosis in HIV infection. 10
2. Nipah virus: 3+3+4
 - a) Epidemiology.
 - b) Pathogenesis.
 - c) Laboratory diagnosis.
3. What are the different methods for the laboratory diagnosis of Malaria? State the advantages and disadvantages of each method. 5+5
4. Mention available vaccines to prevent Measles and Rubella. Describe the present recommendations for their use in India. 4+6
5. Hepatitis C virus: 4+2+4
 - a) Current National guidelines for laboratory diagnosis of Hepatitis C viral infection.
 - b) Role of genotyping in treatment.
 - c) Treatment protocol for Chronic HCV infection.
6. Discuss the End-Game strategy for Polio virus infection and the current polio immunization in India. 7+3
7. *Schistosoma haematobium*: 3+3+4
 - a) Pathogenesis.
 - b) Epidemiology.
 - c) Laboratory diagnosis
8. Enumerate viral causes of meningitis and discuss laboratory diagnosis of viral meningitis. 3+7

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9. Describe *Strongyloides stercoralis* hyperinfection syndrome and its laboratory diagnosis. 10
10. *Entamoeba histolytica*: 3+3+4
- a) Pathogenesis.
 - b) Extra-intestinal complications.
 - c) Laboratory diagnosis.
