

MICROBIOLOGY

PAPER – III

MICRO/D/16/18/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. a) Enumerate viral infections transmitted by mosquitoes. 2+(4+4)
b) Pathogenesis and laboratory diagnosis of Zika virus infection.
2. Significance of viral load in diagnostic microbiology. 10
3. a) Classify oncogenic viruses. 3+7
b) Mechanism of viral oncogenesis.
4. a) Immune reconstitution inflammatory syndrome 5+5
b) NIPAH virus
5. a) Enumerate viral infections which can spread through needle prick injury. 3+7
b) Write the post exposure prophylaxis for any two of them.
6. Enumerate agents of opportunistic intestinal infections and approach to their laboratory diagnosis. 4+6
7. a) Lymphatic filariasis in India. 5+5
b) Drug resistance in malaria
8. a) Ocular parasitic diseases 5+5
b) Post-Kala-azar dermal leishmaniasis (PKDL): Epidemiology and immunological perspective
9. What are prions? Enumerate the diseases caused by prions and their pathogenesis. 2+(4+4)
10. Aetiopathogenesis and laboratory diagnosis of primary amoebic meningoencephalitis. 5+5
