

FINAL EXAM
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

MICROBIOLOGY

PAPER-III

MIC/J/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:

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| 1. Epidemiology, laboratory diagnosis, and vaccines for dengue infection. | 3+4+3 |
| 2. Antigenic variation in influenza virus and its importance in the epidemiology and preventive strategies of the disease. | 5+5 |
| 3. Discuss the malaria vaccines. Describe the pathogenesis of <i>Falciparum malaria</i> . | 5+5 |
| 4. Genotype distribution, laboratory diagnosis and treatment of Hepatitis C virus (HCV). | 3+4+3 |
| 5. Enumerate the zoonotic parasitic infections. Describe the life cycle and laboratory diagnosis of <i>Echinococcus granulosus</i> . | 3+7 |
| 6. a) Epidemiology of sexually transmitted infection caused by <i>Trichomonas vaginalis</i> .
b) Disease spectrum in men and women and its role in HIV transmission. | 3+(3+4) |
| 7. Describe the laboratory diagnosis of rabies. Briefly discuss post-exposure prophylaxis of rabies. | 5+5 |
| 8. What is cutaneous larva migrans? Describe the causes, symptoms and treatment. | 2+(3+2+3) |
| 9. Describe the recent changes in the polio vaccination programme in India. What are vaccine derived polio viruses (VDPVs) and discuss their importance? | 3+(4+3) |
| 10. Enumerate the viruses causing diarrhoea. Describe the epidemiology and laboratory diagnosis of any one. | 5+5 |
