

FINAL EXAM
 DECEMBER 2015

NATIONAL BOARD OF EXAMINATIONS

MICROBIOLOGY
PAPER – III

MICRO/D/15/18/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 arbovirus infections reported from India. b) Pathogenesis of Dengue Haemorrhagic fever (DHF). c) Status of Dengue Vaccine.	2+4+4
2.	a) Morphology of influenza virus and epidemiology of influenza. b) List currently available vaccines.	(4+4)+2
3.	List the viruses that cause opportunistic infections in AIDS. Describe the characteristics of any one of them.	2+8
4.	Enumerate 6 parasitic zoonotic diseases. Write about the mode of transmission and pathogenesis of any one of them.	3+7
5.	Prevention of Hepatitis A infection.	10
6.	a) Enumerate coccidian parasites of humans. b) Transmission and laboratory diagnosis of Toxoplasma gondii infection.	3+(2+5)
7.	List the various methods of detection of viruses in clinical specimens. Describe their principles and the clinical specimen where these can be used.	2+(4+4)
8.	a) List various schistosomes, their mode of infection and diseases caused by them. b) What is the status of these disease in India?	(2+2+3)+3
9.	a) Ante-mortem diagnosis of rabies in humans. b) Immunoprophylaxis of rabies.	4+6
10.	Aetiopathogenesis, epidemiology and diagnosis of Chikungunya.	3+3+4
