

FINAL EXAM
DECEMBER 2016

NATIONAL BOARD OF EXAMINATIONS

MICROBIOLOGY**PAPER – II**

MICRO/D/16/18/II

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) Classify Chlamydia and enumerate the diseases caused by them. 3+7
b) Approach for laboratory diagnosis of these infections.
2. a) Enumerate the causes of chronic meningitis in India. 2+8
b) Its laboratory diagnosis including recent advances.
3. Non-culture methods for diagnosis of sepsis. 10
4. Epidemiology, clinical features and laboratory diagnosis of Penicillium marneffeii infection. 2+2+6
5. a) Name the etiological agent and vector of Scrub typhus. 2+3+5
b) Its epidemiology in India
c) Laboratory diagnosis of Scrub typhus.
6. Dermatophytes: 2+6+2
a) Definition
b) Classifications with examples of each
c) Lab diagnosis in brief.
7. List the bacterial agents causing urethritis. Describe the mode of transmission, pathogenicity and laboratory diagnosis of anyone of them. 2+1+3+4
8. Virulence factors of candida albicans. 10
9. a) Different types of serological tests for syphilis. 5+5
b) National strategy for Elimination of Congenital Syphilis (ECS).
10. Clostridium difficile infection: Risk factors, clinical presentation and laboratory diagnosis. 3+2+5
