

FINAL EXAM
 DECEMBER 2015

NATIONAL BOARD OF EXAMINATIONS

MICROBIOLOGY

PAPER – II

MICRO/D/15/18/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) Define MDR TB. b) Newer methods of drug susceptibility testing for M tuberculosis.	2+8
2.	a) Enumerate the non-albicans candida species. b) Their role in infection and approach to laboratory diagnosis in suspected fungal blood stream infection.	4+6
3.	Define community acquired pneumonia. List the common causes. What will be your approach to laboratory diagnosis of community acquired pneumonia?	2+2+6
4.	a) Risk factors and etiological agents of keratitis. b) Laboratory diagnosis of keratitis.	(2+4)+4
5.	a) Suppurative and non suppurative manifestations of streptococcus pyogenes infections. b) Pathogenesis and laboratory diagnosis of acute rheumatic fever.	(2+2)+(3+3)
6.	a) Define Hyalohyphomycosis and enumerate the common fungi. b) How will you diagnosis a case of subcutaneous hyalohyphomycosis?	(1+3)+6
7.	a) Classify anaerobic bacteria. b) Importance of anaerobic non spore forming bacteria in human diseases.	3+7
8.	Antibiotic resistance in typhoid fever and vaccines available against it.	6+4
9.	a) Transmission & virulence factors of Y. pestis. Name the foci of Y. pestis in India. b) Vaccine against plague.	8+2
10.	a) List opportunistic fungal infections in an immuno compromised host. b) Approach to diagnose cryptococcal infections.	3+7
