

NI-00951

M.B.B.S. 2nd PROFESSIONAL EXAMINATION, 2012
MICROBIOLOGY
PAPER I

Time Allowed: Three Hours

Maximum Marks- 40

Note:- Attempt all questions in serial order. All parts of a question should be answered together. Figures in parenthesis indicate marks allotted to a question.

Q1

A 18 year old man presents with history of sudden onset of effortless vomiting and profuse watery diarrhea. The stool is colourless and has a fishy odor. On laboratory examination, highly motile common shaped bacilli are seen in wet mount preparation:

- What is the most probable diagnosis? *Cholera* (1)
- Discuss the pathogenesis of the condition. (4)
- Discuss the laboratory methods for diagnosis of the condition. (3)

Q2

Discuss briefly:

(a) High level disinfectant (3)

(b) Monoclonal antibody (3)

(c) Plasmids (2)

Q3

Describe briefly:

(a) Antigenic structure of Salmonella (3)

 (b) Haemophilus ducreyi *→ chancr.* (2)

(c) Drug susceptibility testing for mycobacterium tuberculosis (3)

Q4

Enumerate the ARBO viruses. Discuss laboratory diagnosis of Dengue fever. (8)

Q5

Write short notes on:

 (a) Super antigens *✓* (2)

(b) Sterilization controls used in autoclave (3)

(c) Bacterial cell wall (3)
