

Code No. : **4410**

FACULTY OF PHARMACY
B. Pharm. II Year I Semester (Main) Examination, Nov./Dec. 2010
PHARMACEUTICAL MICROBIOLOGY

Time : 3 Hours]

[Max. Marks : 70

Note : Answer all questions. All questions carry equal marks.

1. a) i) Define the following : 6

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|----------------------------|----------------------|
| A) Miasma theory | B) Koch's Postulates |
| C) Germ theory of diseases | D) Abiogenesis |

Describe the different methods of Nutrition and cultivation of Micro organisms. 8

OR

b) i) Describe the organisms of pharmaceutical importance. 6

What is pure culture ? Explain the methods of obtaining pure culture and its preservation. 8

2. a) i) Write the different types of identification of bacteria and explain IMViC tests. 8

ii) Explain in detail about the cultivation of anaerobic bacteria. 6

OR

b) i) Describe the Genetic organization, mutation and mutagens of Microbial Copulation. 9

ii) Explain the repair mechanism for chemical autogenesis. 6

3. a) i) Write about the different groups of disinfectants. 8

ii) Explain Rideal-Walker coefficient test. 6

OR

b) i) Classify sterilization. Explain Moist Heat sterilization. 8

h) What are sterilization indicators ? Explain the types of sterilization indicators. 6

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4. a) i) Classify immunity. Explain Humoral and cell mediated immunity. to- —

ii) Define the following :

A) Vaccine B) Toxoid C) Antiserum D) Antitoxin. 4

OR

b) i) Define hypersensitivity. Detail the types of hypersensitivity reactions.

ii) Explain the various types of antibodies. 6

5. a) i) Write about the general modes of transmission of diseases. Write the causative organism, mode of transmission, symptoms of the following diseases. 8

A) Tuberculosis b) Infective Hepatitis.

ii) Write a detailed account on the pharmaceutical importance of E.coli and Saccharomyces species. 6

OR

b) i) Explain the various process of making potable water. Write the microbial tests for potable water. 7

Write the methods of pasteurization of milk. Write the qualitative tests and grading of milk. 7