

**MICROBIOLOGY**

**PAPER-II**

Time: 3 hours  
Max. Marks:100

MICRO/D/20/18/II

**Important Instructions:**

- *You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.*
- *Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.*
- *No additional supplementary answer sheet booklet will be provided.*
- *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. Classify subcutaneous mycoses. Write in detail on Eumycotic mycetoma. 7+2+1  
What is botryomycosis?
2. Discuss infections caused by Cryptococcus neoformans and discuss 3+7  
laboratory diagnosis of cryptococcosis.
3. Discuss serodiagnosis of syphilis. Add a note on non-venereal 7+3  
Treponematoses.
4. Non-typhoidal salmonellosis. 10
5. Classify non-sporing anaerobes. Discuss their laboratory diagnosis. 2+8
6. Bacteriology of air and control of airborne infections. 3+7
7. Discuss epidemiology and laboratory diagnosis of El Tor vibrios. Add a note 2+5+3  
on Vibrio cholerae O139.
8. Dermatophytosis. 10
9. Discuss invasive pulmonary aspergillosis. Write a short note on Candida 6+4  
auris.
10. Special staining methods used for detection of fungi. 10

\*\*\*\*\*