

www.FirstRanker.com

www.FirstRanker.com

www.FirstRanker.com

NTK/KW/15/6985

Faculty of Pharmacy

B.Pharm. Third Semester (C.B.S.) Examination

PHARMACEUTICAL MICROBIOLOGY AND IMMUNOLOGY—I

Paper-V

Time : Three Hours]

[Full Marks: 80

N.B.: (1) Question No. 1 is compulsory.

- (2) Solve any FOUR questions from the remaining.
- (3) Draw neat labeled diagram wherever necessary.
- (4) Use of electronic calculator is permitted.
- Answer the following (any five): 4×5=20
 - (a) Give the contributions of Antony Van Leeuwenhoek.
 - (b) Discuss the economic importance of fungi.
 - (c) Comment on mutagenic agents.
 - (d) Explain the growth curve of bacteria.
 - (e) Write a note on plasmids.

MVM-46562 1 (Contd.)





www.FirstRanker.com

www.FirstRanker.com

- (f) Define different types of bacteria based on temperature requirements.
- (g) Comment on AIDS.
- (a) Discuss the scope and applications of microbiology to pharmaceuticals.
 - (b) Discuss the contributions of Louis Pasteur.
- 3. Give the classification of microscopes. Describe in detail types of electron microscopes-SEM and TEM.
- (a) Explain the methods of measurement of bacterial
 - (b) Describe the different types of culture media.
- (a) Explain recombination in bacteria by conjugation.

- (b) Explain the cell wall of bacteria.
- (a) Describe the lysogenic cycle in bacteriaphage.

- (b) Explain the structure of virus with a well labelled
- Write short notes on any three: $3 \times 5 = 15$
 - (a) Reproduction in fungi.

and treatment of any one disease: Cholera

(b) Etiology, patho physiology, transmission, prevention

- (ii) Tuberculosis
- (iii) Typhoid.
- (c) Replica plate technique.
- (d) Nutritional requirements of bacteria.

MVM-46562 3 1250



MVM-46562

(Contd.)