

AE-796

M.Sc. (Final)

Term End Examination, 2016-17

MICROBIOLOGY

Paper - II

Medical Microbiology

Time : Three Hours] [*Maximum Marks* : 100

[*Minimum Pass Marks* : 36

Note : Answer **all** questions. All questions carry equal marks. Draw diagrams wherever required.

Unit-I

1. Discuss the status of resident flora of different parts of the human body. How do they attribute towards the healthy state of human body ?

OR

Write short notes on any **two** of the following :

- (a) Contributions of Robert Koch in the development of bacteriology

(2)

- (b) Classification of medically important gram negative bacteria
- (c) Landmark discoveries in medical microbiology field with respect to toxin, antitoxin and serum therapy

Unit-II

- 2. Discuss the role of depolymerising enzymes in spread of infection.

OR

Write short notes on any **two** of the following :

- (a) Difference between variation and virulence
- (b) Effect of bacterial adhesion on host cells
- (c) Organotropism

Unit-III

- 3. Discuss the clinical syndromes caused by *E.coli*.

OR

Write short notes on any **two** of the following :

- (a) Morphological and biochemical features of *Staphylococcus aureus*

(3)

- (b) Quellung reaction
- (c) Life cycle and pathogenicity of Chlamydia

Unit-IV

4. Discuss the structural features and pathogenicity of Rhabdovirus.

OR

Write short notes on any **two** of the following :

- (a) Replication of pox virus
- (b) Lab diagnosis of fungal diseases
- (c) Pathogenicity of Adenovirus

Unit-V

5. Define the term 'Nosocomial Infections'. Discuss the common types of hospital infections by giving special emphasis on their diagnosis.

OR

Write short notes on any **two** of the following :

- (a) Kirby-Bauer Test
- (b) Subunit Vaccines
- (c) Passive Prophylaxis