

**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