[Time : 3 Hours]

[Max.Marks: 100]

#### MD MICROBIOLOGY – PAPER -I QP CODE : 5017

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

#### LONG ESSAY

(2X20=40 Marks)

Describe the different methods of transmission of genetic material between bacteria.
 Add a note about the genetic mechanisms of drug resistance. (15+5)

2. Enumerate the different pathways of complement activation.

Discuss the lectin complement pathway activation and biological function of complement. (5+15)

#### **SHORT ESSAY**

- 3. De George's Syndrome
- 4. Delayed hypersensitivity
- 5. Plasma sterilization.
- 6. Anaerobic culture methods.
- 7. Nutritional requirements for growth of bacteria
- 8. ADCC (Antibody dependent cellular cytotoxicity)

3 Hours

[Max.Marks : 100]

### MD MICROBIOLOGY – PAPER -II QP CODE : 5018

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

### NG ESSAY

(2X20=40 Marks)

- Describe the various Virulence factors and infections produced by Staphylococcus aureus. Also describe the laboratory diagnosis of Staphylococcal infections with emphasis on detection and importance of MRSA. (8+12)
- Describe in detail infections produced by Clostridium perfringes. Describe the laboratory diagnosis of gas gangrene. (12+8)

#### SHORT ESSAY

- 3. Mycobacterium leprae.
- 4. Relapsing fever.
- 3. Haemophilus influenza.
- . Neisseria gonorrhea.
- TRIC agents.
- Laboratory diagnosis of urinary Tract Infection.

: 3 Hours]

[Max.Marks : 100]

### MD MICROBIOLOGY – PAPER -III QP CODE: 5019

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

ONG ESSAY

(2X20=40 Marks)

Name viruses causing congenital infections. Describe the pathogenesis and laboratory diagnosis of Cytomegalovirus (CMV). (4+6+10)

2. List the fungi causing infections in an immune compromised host. Describe in detail about laboratory diagnosis of Aspergillosis.

**SHORT ESSAY** 

- 3. Describe the laboratory diagnosis of Mucormycosis.
- 4. Describe the laboratory diagnosis of coxsackie viral infections.
- 5. Laboratory diagnosis of Oculomycosis.
- 6. Describe diarrhoeogenic Viruses.
- 7. Describe Antirabies vaccine.
- 8. Mycotoxicosis.

: 3 Hours]

[Max.Marks: 100]

### MD MICROBIOLOGY – PAPER -IV QP CODE: 5020

Your answer should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

Each answer should be written on new page only.

#### **DNG ESSAY**

(2X20=40 Marks)

Enumerate the amoebae morphologically similar to Entamoeba histolytica.

Discuss pathogenesis and diagnosis of Entamoeba histolytica. Add a note on vaccine trial in amoebiasis. (2+12+6)

2. Describe the pathogenesis, life cycle and laboratory diagnosis of cystic echinococcosis.

(5+5+10)

#### SHORT ESSAY

- 3. Laboratory diagnosis of filariasis.
- 4. Balamuthia spp.
- 5. Parasitic vaginosis.
- 6. Paragonimus infection in India
- 7. Trichinellosis in India.
- 8. Ancylostoma caninum.