

**M.Sc. MICROBIOLOGY**  
**THIRD SEMESTER [SPECIAL REPEAT]**  
**CLINICAL MICROBIOLOGY AND DIAGNOSTIC TECHNIQUES**  
**MMB-303**

**SET**  
**A**

Duration: 1hr. 30 mins.

Full Marks: 35

**( Objective )**

Time: 15 mins.

Marks: 10

*Choose the correct answer from the following:*

*1×10=10*

- Infection disease cycle represents as:
  - Source of the pathogen-Susceptibility of the host-Transmission to the host-source of the pathogen-Exit
  - Susceptibility of the host-Transmission to the host-Source of the pathogen-the pathogen-Exit
  - Transmission to the host-source of the pathogen-Susceptibility-pathogen-Exit
  - The Pathogen-Source of the pathogen-Transmission to the host-Susceptibility of the host-Exit
- In toxigenicity AB represents as:
  - A- Binding subunit, B- Toxic
  - AB toxic effect
  - A- Toxic, B- Binding subunit
  - AB- Binding subunit
- If an organism persists but remain inactive for long period of time usually for years is known as:
  - Intermittent latency ELISA
  - Quiescent Latency
  - Reservoir RID
  - Immunofluorescence
- The mode of action of Quinolone is to:
  - Disrupt the cell wall
  - The protein synthesis
  - Replication
  - Folic acid synthesis
- The causative agent of Tuberculosis:
  - Salmonellasps
  - Mycobacterium sps
  - Shigella
  - None
- Neisseria gonorrhoea is a causative agent for:
  - Typhoid
  - Gonorrhoea
  - Syphillis
  - AIDS
- Find out the Beta Lactam antibiotics from the following.
  - Penicillin
  - Methicillin
  - Carbencillin
  - All
- Mantoux test is done for which type of disease?
  - Tuberculosis
  - Typhoid
  - Syphillis
  - None

9. A person suffering from acne is caused by which microorganism?
- a. Micrococcus
  - b. Staphylococcus
  - c. Propionibacterium
  - d. E coli
10. Which of the following genus of bacteria causes gastroenteritis in humans?
- a. Salmonella
  - b. Enterobacter
  - c. Escherichia
  - d. Shigella

**( Descriptive )**

Time : 1 hr. 15 mins.

Marks : 25

[ Answer question no.1 & any two (2) from the rest ]

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|--|--------|
| 1. Define toxigenicity. Explain the mode of diphtheria toxin with a neat diagram.  | 5      |
| 2. a) Write a note on the microflora of Urinary Tract infection.<br>b) Explain the laboratory diagnosis related to antibiotic sensitivity test with a neat diagram.                        | 5+5=10 |
| 3. Write the causative agent, mechanism and symptoms of any Intestinal tract causing Microorganism.  | 10     |
| 4. a) Describe the causative agent, mechanism , symptoms, laboratory diagnosis and treatment of HIV disease.<br>b) Explain the mechanism of action of antiviral drugs with a neat diagram. | 5+5=10 |
| 5. Define chemotherapy. Explain the mode of infection of drugs which inhibits the replication on microorganisms.   | 2+8=10 |

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