

M.Sc. MICROBIOLOGY
THIRD SEMESTER
CLINICAL MICROBIOLOGY AND DIAGNOSTIC TECHNIQUES
MMB-303

**SET
B**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

1. Neisseria gonorrhoea is a causative agent for:
a. Typhoid
b. Gonorrhoea
c. Syphilis
d. AIDS
2. Find out the Beta Lactam antibiotics from the following.
a. Penicillin
b. Methicillin
c. Carbencillin
d. All
3. Mantoux test is done for which type of disease?
a. Tuberculosis
b. Typhoid
c. Syphilis
d. None
4. A person suffering from acne is caused by which microorganism?
a. Micrococcus
b. Staphylococcus
c. Propionibacterium
d. E coli
5. Which of the following genus of bacteria causes gastroenteritis in humans?
a. Salmonella
b. Enterobacter
c. Escherichia
d. Shigella
6. Infection disease cycle represents as:
a. Source of the pathogen-Susceptibility of the host-Transmission to the host-source of the pathogen-Exit
b. Susceptibility of the host-Transmission to the host-Source of the pathogen-the pathogen-Exit
c. Transmission to the host-source of the pathogen-Susceptibility-pathogen-Exit
d. The Pathogen-Source of the pathogen-Transmission to the host-Susceptibility of the host-Exit
7. In toxigenicity AB represents as:
a. A- Binding subunit, B- Toxic
b. AB toxic effect
c. A- Toxic, B- Binding subunit
d. AB- Binding subunit
8. If an organism persists but remain inactive for long period of time usually for years is known as:
a. Intermittent latency ELISA
b. Quiescent Latency
c. Reservoir RID
d. Immunofluorescence

9. The mode of action of Quinolone is to:
- a. Disrupt the cell wall
 - b. The protein synthesis
 - c. Replication
 - d. Folic acid synthesis
10. The causative agent of Tuberculosis:
- a. Salmonellasps
 - b. Mycobacterium sps
 - c. Shigella
 - d. None

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

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