



RAN-2103000206021102

T.Y.B.Sc. (Sem. - VI) Examination September - 2025

Bioscience (Microbiology)

BS 602: Clinical Microbiology

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y.B.Sc. (Sem. - VI)

Name of the Subject :

Bioscience (Microbiology) BS 602: Clinical Microbiology

Subject Code No.: 2103000206021102

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks.
(3) Draw neat & clean diagram wherever necessary.

Q. 1 Multiple choice questions:

08

- First case in the epidemic is called _____.
a. Sporadic case b. Epidemic case
c. Emergency case d. None
- Which of the following is a component of the infection cycle?
a. Pathogen b. Source
c. Susceptible host d. All
- Microbiological examination of clinical specimens includes,
a. Isolation of pathogen
b. Identification of pathogen
c. Antimicrobial sensitivity
d. All
- Which of the following is a biochemical media?
a. Peptone water b. Simon citrate agar slant
c. Sugar media d. All

5. E-test is useful for _____
 - a. MIC
 - b. MBC
 - c. MIC & MBC
 - d. None
6. Which of the following is not a chemotherapeutic agent?
 - a. Penicillium
 - b. Sulphonemides
 - c. Isonicotinic acid
 - d. Amikacin
7. Which of the following is an immunological assay?
 - a. ELISA
 - b. RIA
 - c. IFT
 - d. All
8. Monoclonal antibody produced by _____ technique.
 - a. Clonal selection
 - b. RIA
 - c. ELISA
 - d. None

Q. 2 [A] Answer as directed: 04

1. Give any two examples of communicable diseases.
2. State any two transport
3. What is MBC?
4. Define: Polyclonal antibody

[B] Write short note on Any Two 10

1. Nosocomial infection.
2. API 20.
3. Epsilometer Test.

Q. 3 Answer the following questions. 14

1. Explain in brief Emerging & Re-emerging diseases.
2. Write a note on -Epidemiology

OR

Q. 3 Write an essay on-Collection, aseptic handling & microbiological examination of Pus sample. 14

Q. 4 Answer Any Two of the following. 14

1. Write a note on - MIC by micro dilution test
2. How monoclonal antibodies are produced?
3. Describe in brief the mode of action of chemotherapeutic agent