



RAN - 2203000206026004

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T.Y.B.Sc. (Sem.-VI) Examination April - 2023

Microbiology - MB 604 : Diagnostic Microbiology

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(१)

नीचे दृशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.
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 :

Microbiology - MB 604 : Diagnostic Microbiology

Subject Code No.: **2203000206026004**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labeled diagrams wherever necessary

Q-1: Give specific answers:

(12)

- Expand the term: CSF. From where it is collected for carrying out laboratory tests?
- Write two examples of commercially available organism identification systems.
- What is SYBER Green-1? Where does it bind to DNA?
- Give full form of RIA. How does it differ from FIA?
- Name Two other scientist who got Nobel Prize along with Fleming for discovery and production of penicillin
- Define: Narrow spectrum drugs and Broad spectrum drugs

Q-2: Explain/Comment on Any Two on following:

(12)

- PFGE is used for strain typing as "Gold Standard" Method
- Latex agglutination tests are very popular in clinical laboratories for detection of antigens.
- Presence of β -lactamase enzyme can be detected by phenotypic assay

Q-3: Discuss Any Two of the following in detail: (16)

- a) Collection and transport of urogenital specimens from male and female patients
- b) Enzyme linked Immunosorbent Assays (ELISA)
- c) Antibiotics which inhibit the protein synthesis of pathogens

Q-4: Write Short notes on Any Two of the following. (10)

- a) Various amino acid degradation tests for identification of organisms
 - b) Advantages and disadvantages of molecular approaches to direct organism detection.
 - c) Hybridization with signal amplification
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