



# RAN-2203000206026004

## T.Y.B.Sc. (Semester-VI) Examination March - 2026 Microbiology : MB-604-Diagnostic Microbiology (Old)

Time: 2 Hours ]

[ Total Marks: 50

|                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                 |                      |                      |                      |                      |                      |                      |
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| <p><b>સૂચના : / Instructions</b></p> <p>(1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવર્ણી પર અવશ્ય લખવી.<br/>Fill up strictly the above details on your answer book.</p> <p>(2) Figures to the right indicate full marks of the question.</p> <p>(3) Draw neat and labelled diagrams wherever necessary.</p> | <p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/>                                                                                                                                                                                                                                                                             | <input type="text"/>                                                                                                                                                                                                                                                                                                                                                            | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |                      |                      |

- Q-1. Give specific answers. 12**
- Describe the collection method for CSF.
  - Full form of RFLP and mention its use in medical microbiology.
  - Give two examples of differential media with its application.
  - Explain-Schlichter Test.
  - Enlist the components used in PCR reaction.
  - State importance of Vitek 2.
- Q-2. Explain/Comment on Any Two of the following. 12**
- Explain: Collection and transportation of urine sample.
  - Comment: Latex agglutination tests are very popular in clinical laboratories for detection of antigens.
  - What are nucleic acid hybridization methods? Explain the key requirements.
- Q-3. Answer Any Two of the following in detail. 16**
- Discuss in detail: Protein synthesis inhibitors.
  - Give a detail account on serodiagnosis of infectious diseases.
  - Write a detail note on pyrosequencing.
- Q-4. Write Short notes on Any Two of the following. 10**
- Western blot immunoassay.
  - Inhibitors of nucleic acid synthesis.
  - Phenotypic identification of pathogen.