

RAN-2203230201030001**PGDMLT (Sem. I) Examination November - 2025****1003 - Medical Microbiology****Time: 3 Hours]****[Total Marks: 70****સૂચના : / Instructions**

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Answer all the questions as per instruction given bellow.
- (3) Illustrate your answers with diagrams wherever necessary.
- (4) Figures to the right indicate full marks of the question.

Seat No.:

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Student's Signature

Q. 1. Answer in one or two sentences each: (Any 7) (14)

1. Enlist stool sample transport media for bacterial disease diagnosis.
2. Define MIC & MBC.
3. Describe colony characteristics of *Staphylococcus aureus* on MSA plate.
4. Give two examples of bacteria causing UTI.
5. Describe the causative agent of AIDS.
6. Chikungunya virus is an RNA virus. True or false?
7. What is the causative agent of Malaria?
8. Which pathogenic fungus causes Mycotic meningitis?

Q. 2. Attempt any two of the following: (14)

1. Give details of different factors affecting the results of AST.
2. Give details of collection, transportation and examination of clinical specimens for fungal diseases.
3. How to do collection, transportation and examination of Pus and CSF clinical samples for diagnosis of bacterial disease?

Q. 3. Answer any two of the following: (14)

1. Identification of *Klebsiella spp.* by Morphological, Cultural and Biochemical characteristics.
2. Hospital Acquired Infection.
3. Give details of causative agent and laboratory diagnosis of Syphilis.

Q. 4. Answer in short on any two of the following: (14)

1. Causative agent of AIDS.
2. Laboratory Diagnosis of Chikungunya.
3. Laboratory Diagnosis of SARS.

Q. 5. Write Short note on any two of the following : (14)

1. Define Mycology. Give general concepts of Mycosis
2. Enlist key techniques for laboratory diagnosis of fungal infection. Explain any one in brief.
3. Malaria and its laboratory tests