RAN-2203230201010001

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## PGDMLT (Sem.-I) Examination March - 2026

## Post Graduate Diploma in Medical Laboratory Technology

## Medical Laboratory Technology Fundamentals (PGDMLT-1001)

**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) All questions are compulsory.

(3) Draw diagrams wherever necessary

Seat No.:

Student's Signature

**Q.1. Answer in short (Any seven)** **14**

1. Which are the functional components of a laboratory?
2. Write full form of PHC and CHC.
3. Which are steps of Biomedical waste management?
4. Write general factors leading to hazards in a laboratory.
5. Enlist and explain types of pipettes used in laboratory.
6. Define - normal and molar solutions
7. Why is QC important in laboratory?
8. Define - accuracy and precision

**Q.2. Attempt any TWO of the following.** **14**

1. Discuss the tests commonly requested in the laboratories of India.
2. Explain organization of clinical laboratories. Explain the different departments commonly present in a laboratory.
3. ISO accreditation -scope and objectives and benefits.

**Q.3. Attempt any TWO of the following.** **14**

1. Discuss the biological hazards in the laboratory. What are the preventive measures for biological hazards?
2. Write a note on First aid measures in a laboratory.
3. What is BMW? Write its classification and categories of it.

**Q.4. Attempt on any TWO of the following.** **14**

1. Define: Solute, Solvent and solutions. Discuss in detail the types of solutions
2. Explain Units of measurement and importance of SI units
3. Reagent grade water

**Q.5. Attempt any TWO of the following.** **14**

1. Explain Quality control of any two departments of clinical laboratory.
2. Explain analytical and post-analytical errors in detail
3. LJ chart and its interpretation.