



RR-0618

**First Year B. Sc. Examination**  
**March / April – 2010**  
**Medical Technology : Paper - I**  
*(Fundamentals of Medical Technology)*  
*(New Course)*

Time : Hours]

[Total Marks : 70

**Instructions :**

(1)

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

Name of the Examination :  
F. Y. B. Sc. (New)

Name of the Subject :  
Medical Technology - 1

Subject Code No. : 0 6 1 8 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

(2) Figures to the right indicate full marks of the question.

(3) Draw neat and labelled diagrams wherever necessary.

1 Answer the following :

14

- What is the difference between immunology and serology?
- State the principle and use of water bath.
- What is EDTA? How it prevents the coagulation of blood?
- Give laboratory hazard symbol for oxidizing and explosive chemicals.
- How will you preserve urine specimen?
- Name the chemical use as dessicant in dessicator.
- What is buffer? Give two examples of it.

- 2** Explain the following : **12**
- (a) Clinical biochemistry is an important branch of medical technology.
  - (b) Quality control in pathology and haematology laboratory is must.

**OR**

- 2** (a) Autoclave is indispensable in microbiology laboratory.  
(b) Solutions can be expressed by different strength.
- 3** Write an essay on : **10**  
"Collection, storage and preservation of CSF and blood."

**OR**

- 3** Write an essay on :  
"Quality control in microbiology and bloodbank laboratory."
- 4** Discuss in detail the radiation biology. **10**

**OR**

- 4** Describe various anticoagulants with respect to their action and uses.
- 5** Answer any **two** of the following : **12**
- (a) Describe personal safety in clinical laboratory.
  - (b) Discuss the working principle and application of balance.
  - (c) Discuss quality control in parasitology laboratory.
- 6** Write short notes on any **two** of the following : **12**
- (a) SI Units
  - (b) Biomedical waste-storage and treatment
  - (c) Pleural fluid and urine - collection.

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