



**SB-0618**

**First Year B. Sc. Examination**

**March/April – 2011**

**Fundamental of Medical Technology : Paper - I**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दशांशके निशानीवाणी विगतो उत्तरवही पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="F. Y. B. Sc."/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Fundamental of Medical Technology : Paper - 1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="1"/> <input type="text" value="8"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="NIL"/>	<input type="text"/>
	<input type="text" value="Student's Signature"/>

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

(3) Draw neat and labelled diagrams wherever necessary.

1 Answer the following :

14

- Define : Normal and percentage solution.
- List the important components of colorimeter.
- What do you mean by CPDA ? Give its use.
- What is buffer ? Give two example of it.
- Give the location of amniotic and pleural fluid in human body.
- Give use of centrifuge and dessicator in clinical laboratory.
- Draw the laboratory hazard symbols for corrosive and explosive chemicals.

2 Explain/comment on the following :

12

- Autoclave is an important instrument in clinical laboratory.
- Different indicator are use in laboratory.

**OR**

**SB-0618]**

**1**

**[Contd...**

- 2 (a) Histopathology is an important branch of medical technology.  
(b) Storage and treatment of biomedical waste is critical.
- 3 Write an essay on : 10  
"Quality control in blood bank and microbiology laboratory."  
**OR**
- 3 Write an essay on : 10  
"Collection, storage, preservation and transport of sputum and CSF specimen for clinical analysis".
- 4 Discuss in detail the personal safety in clinical laboratory. 10  
**OR**
- 4 Discuss in detail the immunology and serology as important branch of medical technology. 10
- 5 Answer any two of the following : 12  
(a) Describe the working principle and application of P<sup>H</sup> meter.  
(b) EDTA - Mechanism of action and use in clinical laboratory.  
(c) Explain types of errors in laboratory techniques.
- 6 Write short notes on any two of the followings : 12  
(a) Law of mass action.  
(b) Throat and mouth specimen  
(c) Importance of first aid box in clinical laboratory.
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