



**AD-3293**

**Third Year B. Sc. (Sem. VI) Examination**

**March/April – 2015**

**Medical Technology**

**MT - 22 : Laboratory Instrument & Techniques**

Time : Hours]

[Total Marks : 50

**Instructions :**

(1)

नीचे दर्शायेख निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="THIRD YEAR B. SC. (SEM. 6)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MED. TECH. : MT - 22 : LABO. INST. &amp; TECH."/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="3"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

(2) Figures to the **right** indicate marks.

(3) Draw labelled diagram where needed.

1 Answer the following briefly :

8

(1) List the blood gas parameters and give its normal range.

(2) What is epidemiologic typing methods ?

(3) What is background count ? Why is it produced in a liquid scintillation counter ?

(4) What is computed tomography.

2 Attempt any **two** of the following :

14

(1) Discuss in detail the gene amplification technique and its applications in clinical diagnosis.

(2) Describe the flame photometry. Write the working principle and components of atomic absorption flame photometer.

(3) Explain in detail the biochemical applications of radioisotopes.

**3** Answer any **two** of the following : **14**

- (1) Explain in detail automation in Microbiology and Hematology laboratory.
- (2) Write the difference between nephelometry and turbidometry. Mention the applications of nephelometric techniques.
- (3) Explain primary and secondary fluors.

**4** Write short notes on : (any **two**) **14**

- (1) Fluorimetry
  - (2) Western blotting techniques
  - (3) GM counter.
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