



DRR-3293

Third Year B. Sc. (Sem. VI) (Medical Tech.) Examination

March / April - 2016

MT-22 : Laboratory Instrument & Techniques

Time : 2 Hours]

[Total Marks : 50

Instruction :

नीचे दशांशवैल निशानीवाणी विगतो उत्तरवही 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"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
<input type="text" value="Third Year B. Sc. (Sem. VI) (Medical Tech.)"/>	<input type="text" value="Student's Signature"/>
Name of the Subject :	
<input type="text" value="MT-22 : Laboratory Instrument & Techniques"/>	
Subject Code No. : <input type="text" value="3"/> <input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="3"/>	Section No. (1, 2,.....): <input type="text" value="Nil"/>

1 Answer the following questions : 8

- (1) What is radioactive decay?
- (2) Enlist various application of automation.
- (3) Define phage typing.
- (4) Define the term Half- life of radioisotopes.

2 Attempt any one of the following : 14

- (1) Justify : Turbidometers or nephelometers are widely used to measure the radiation scattering. Discuss the applications of turbidometry in clinical laboratory.
- (2) Define typing and biotyping. Justify : Biotyping makes use of the pattern of metabolic activities expressed by an isolate, colonial morphology and environmental tolerances. Explain in detail epidemiologic typing methods.

- 3** Answer any two of the following : **14**
- (1) Discuss advantages and disadvantages of automation in clinical laboratory.
 - (2) Discuss the use of radio isotopes as tracers.
 - (3) Give a detailed account of PCR technique and the factors affecting gene amplification.
- 4** Write short notes on any two of the following: **14**
- (1) Southern blotting technique
 - (2) Units of radioactivity and isotopes
 - (3) Ultracentrifuge - principle and its application.
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