

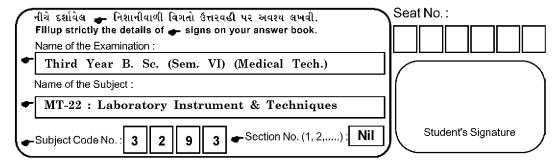
DRR-3293

Third Year B. Sc. (Sem. VI) (Medical Tech.) Examination March / April - 2016

MT-22: Laboratory Instrument & Techniques

Time: 2 Hours] [Total Marks: 50

Instruction:



1 Answer the following questions:

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- (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:

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- (1) Justify: Turbidometers or nephlometers 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 epiderniologic typing methods.

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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:

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- (1) Southern blotting technique
- (2) Units of radioactivity and isotopes
- (3) Ultracentrifuge principle and its application.