



RR-0632
First Year B. Sc. Examination
March / April – 2010
Medical Technology : Paper - I
(Fundamentals of Medical Technology)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

<p>नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : F. Y. B. Sc.</p> <p>Name of the Subject : Medical Technology - 1</p> <p>Subject Code No. : 0 6 3 2 Section No. (1, 2,.....) : Nil</p>	<p>Seat No. : <table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: 100%; height: 80px; margin-top: 10px;">Student's Signature</div>						

- (2) Figures to the **right** indicate full marks of the question.
- (3) Draw neat and labelled diagrams wherever necessary.

1 Answer the following : 14

- (a) What is mycology? Name any two organism studied in this branch.
- (b) Define : Molar and Normal solution.
- (c) Give the importance of autopipettes and syringes in clinical laboratory.
- (d) Name the method used for disposal of infected material in clinical laboratory.
- (e) What do you mean by stock solution and working solution?
- (f) Give the composition of MacConkey's agar.
- (g) Give the advantage and disadvantage of EDTA as anticoagulant.

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[Contd...

2 Explain the following : 12

- (a) Different errors observed in processing laboratory records.
- (b) Solute, solvent and solutions are different from each other.

OR

2 (a) Human anatomy is differ from human physiology. 12

- (b) Autoclave, hot air oven and incubators have their own importance in clinical laboratory.

3 Write an essay on : 10

"Biohazards of clinical laboratory."

OR

3 Write an essay on : 10

"Autoanalyzer and clinical laboratory."

4 Describe quality control in terms of the following : 10

Haematology, Blood Bank and microbiology laboratory.

OR

4 What are anticoagulants? Describe different anticoagulant with their mode of action and uses in haematological study.

5 Answer any two of the following : 12

- (a) Describe histopathology as a branch of medical technology.
- (b) Explain selective and differential bacteriological medium with example.
- (c) What is the principle and use of single pan balance and colorimeter?

6 Write short notes on any two of the following : 12

- (a) Production of distilled water
- (b) SI Units
- (c) Storage of chemicals in clinical laboratory.