



RR-0633

First Year B. Sc. Examination
March / April – 2010
Medical Technology : Paper - II
(Introduction to Microbiology)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

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|---|---|--|----------------------------------|
| નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of signs on your answer book. | | Seat No. : | |
| Name of the Examination : | | <input type="text"/> | |
| Name of the Subject : | | <input type="text"/> | |
| Medical Technology - 2 | | <input type="text"/> | |
| Subject Code No. : | <input type="text" value="0"/> <input type="text" value="6"/> <input type="text" value="3"/> <input type="text" value="3"/> | Section No. (1, 2,.....) : | <input type="text" value="Nil"/> |
| | | <input type="text" value="Student's Signature"/> | |

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

(3) Draw neat and labelled diagrams wherever necessary.

1 Answer the following :

14

- List two factors affect the resolution of microscope.
- Explain the role of intensifier giving suitable example in staining techniques.
- What is nephron? State its function.
- What is droplet nuclei? Give its significance.
- Name any two hospital item sterilize by autoclave and radiation.
- How antiseptic differs from disinfectants?
- Give two non medical use of antibiotic.

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[Contd...

2 Comment on the following : **12**

- (a) Counter stains are use for differential staining techniques.
- (b) Intracellular content of the cells can be seen by phase contrast microscope.

OR

2 (a) Various pathogens cause disease in urogenital tract of human. **12**

- (b) Detection of coliform is important to determine potability of water.

3 Write an essay on : **10**
"Heat as a sterilizing agent."

OR

3 Write an essay on : **10**
"Antibiotic Sensitivity testing."

4 Justify the statement : **10**
Different gaseous agents are use as disinfectants.

OR

4 Justify the statement : **10**
Air does not have its own microbial flora.

5 Answer any **two** of the following : **12**

- (a) Explain the working principle and use of SEM.
- (b) Describe human respiratory system and name the pathogens associated with it.
- (c) How filtration can be use as a method of sterilization.

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

- (a) Positive staining v/s Negative staining
- (b) Halogens as disinfectant
- (c) Sulpha drugs.
