



**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)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य लખवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
F. Y. B. Sc.

Name of the Subject :  
Medical Technology - 2

Subject Code No. : 0 6 3 3 Section No. (1, 2,.....): Nil

Seat No. :

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 :

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

- 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.
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