

RR-0633

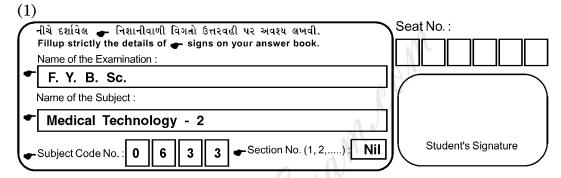
First Year B. Sc. Examination March/April - 2010

Medical Technology: Paper - II

(Introduction to Microbiology)

Time: 3 Hours] [Total Marks: 70

Instructions:



- (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) 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.

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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."	
	\mathbf{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.	
	(o) Sulpiu urugo.	

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