

SB-0619

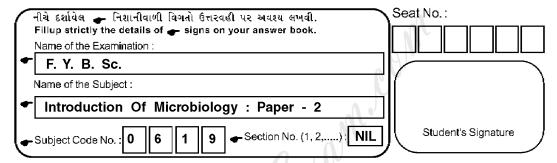
First Year B. Sc. Examination March/April - 2011

Introduction Of Microbiology: Paper - II

Time: 3 Hours] [Total Marks: 70

Instructions:

(1)



- (2) Figures to the right indicate full marks of the questions.
- (3) Draw neat and labelled diagrams wherever necessary.
- 1 Answer the following:

14

- (a) Give any two contributions of Louis Pasteur in the field of microbiology.
- (b) What are fluorochromes? Give one application of fluorescence microscopy.
- (c) What is mordant? Give two example of it.
- (d) Give two functions of pili.
- (e) How disinfectant differs antiseptic? Give one example of each.
- (f) What is stalk? Give one example of bacterial genus that possess it.
- (g) Name two methods used for long term preservation of cultures.

SB-0619] 1 [Contd...

2	Explain/comment on the following:		12
	(a)	Cytoplasmic inclusion are important for bacteria.	
	(b)	Electron microscope has high resolving power.	
		OR	
2	(a)	Phenolic compounds are antimicrobial agent.	
	(b)	Differential staining techniques are useful in	
		clinical diagnosis.	
3	Wri	te an essay on :	10
	Spo	ntaneous generation V/s Biogenesis.	
		OR	
3	Wri	te an essay on :	10
	"Mo	ist heat V/s Dry heat as sterilizing agent".	
4	Jus	tify the following statement:	10
	Diff	erent methods are used for specimen preparation in TEM	Л.
		OR	
4	Jus	tify the following statement:	10
	Diff	erent techniques are used for isolation of pure cultures.	
5	Ans	Answer any two of the following:	
	(a)	Describe the principle of staining.	
	(b)	How endospore formation occurs in bacteria?	
	(c)	Describe mode of action and applications of ethylene	
		oxide.	
6	Write short notes on any two of the following:		12
	(a)	Phase contrast microscopy- Principle and application.	
	(b)	Positive V/s negative staining.	
	(c)	Morphological characteristics of bacteria.	

SB-0619] 2 [300]