APS.1-2015

PaperCode: 3791

B.Sc. Examination

Paper Name: Mi-301-Introduction to microbiology

Semester - III

Time: 2:30 Hours Total Marks:		70
Instructions: (a) Figure to the right indicates total marks of respective question. (b) Draw neat, clean and labeled diagram wherever necessary.		
1.(a) 1.(b)	Discuss: The golden period of microbiology. Explain: Spontaneous generation conflict in brief.	10 04
	OR	
1.(a) 1.(b)	Explain: Theory of biogenesis and abiogenesis. Discuss: Applied areas of microbiology.	10 04
2.(a) 2.(b)	Discuss: Compare and contrast between TEM and SEM. Explain: Fixation and its types.	10 04
	OR	
2.(a) 2.(b)	Describe: Different types of staining & their applications. Explain: Bright field microscopy.	10 04
3.(a) 3.(b)	Describe different shapes, sizes and arrangement of bacterial cells. Write a short note on: Protoplast.	10 04
	OR	
3.(a) 3.(b)	Define capsule. Explain in detail bacterial capsule with its function. Explain: The difference between true motility & Brownian motility.	10 04
4.(a)	Explain: Germ theory of fermentation & contributions of Louis Pasteur.	10
4.(b)	Discuss: Koch's postulates.	04
	OR	
4.(a)	Explain: Distribution of microorganisms in nature.	10
4.(b)	Discuss: Contribution of Antony Van Leuwenhoeck.	04
5.(a)	Differentiate various bacteria depending on their cell wall & write functions of cell wall.	10
5.(b)	Explain: types of spores.	04
	OR	
5.(a)	Discuss: Fluorescence microscopy.	10
5.(b)		04