## M.Sc. (Biotechnology) (CBCS Pattern) Sem-I **PSBIT102 - Microbiology Paper-II**

P. Pages:			GUG/W/22/11147 Max. Marks : 80
1.	a)	Write the contribution of following scientist in the field of Microbiology i) Louis Pasteur ii) Robert Koch.	8
	b)	Write a note on Bergey's system of classification.	8
	,	OR	0
	a) b)	Explain the structure and function of capsule and flagella.  Explain in brief about endospore.	8
2.		Explain the principle and working mechanism of TEM.	16
		OR	
		a) Write a note on types of stain.	8
		b) Explain the procedure and mechanism of endospore staining.	8
3.		Describe the physical and chemical method of sterilization.	16
		OR	
		a) Write a note on measurement of growth.	8
		b) Explain in brief basic nutritional requirement of micro-organism.	8
4.		Describe the general characteristic reproduction and application of algae.  OR	16
		Write the general character of viruses and explain the different structure.	16
5.	a)	Give the structure of typical bacterial cell.	4
	b)	Write a note on oil immersion objective lense and its significance.	4
	c)	Write a note on measurement of growth.	4
	d)	Write a note on Viriods and Prions.	4

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