Roll No.

(05/16-I)

5182

B. Sc. EXAMINATION

(Second Semester)

BIOTECHNOLOGY

Third Paper

General Microbiology

Time: Three Hours Maximum Marks: 40

Note: Five questions are to be attempted in all. Q. No. 1 is compulsory. The candidates are required to attempt four other questions selecting at least two questions from each Unit. All questions carry equal marks.

- 1. Write very short notes on the following:
 - (a) Robert Koch
 - (b) Halogens
 - (c) Membrane filter

	(g)	HIV		base	d on morphology.	1,3,4
	(h)	Log phase. 1×8=8	6.		te short notes on the following:	
2.		ouss the construction and working principle compound microscope.		(a) (b) (c)	Structure of a virus Tuberculosis Bacterial endospore	
3.	Writ	e notes on any two of the following:		(d)	Oxidative Phosphorylation. 4	×2=8
	(a) (b)	Scanning Electron Microscopy (SEM) Contributions of Antony van Leeuwenhoek	7.	(a)	Discuss the kinetics of microbial grand various factors affecting the bac growth.	
	(c)	Principle and applications of autoclave. 2×4=8		(b)	Write a note on bacterial photosynt	hesis. 4
4.	(a)	Discuss the role of alcohol as antimicrobial chemical agent. 4				
	(b)	Explain the role of microbiology as a modern science.				
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Unit II

5. Define taxonomy. Discuss the concept of

microbial species. Give classification of viruses

(d)

Phase contrast

Thermophile

Capsule