Roll No. . Printed Pages: 2 (i) Sub. Code: **Questions** :9 (ii) Exam. Code: 0 B.A./B.Sc. (General) 1st Semester 1125 INDUSTRIAL MICROBIOLOGY (Elective) Paper: IMB-101: Fundamentals of Microbiology-I [Maximum Marks: 33 Time Allowed: 3 Hours] Note: - Attempt five questions in all. Q. No. 1 is compulsory and select one question from each Unit (I-IV). Answer the following (Compulsory): 1. Enlist the members of Microbial World. (a) Differentiate between light & electron microscope. (b) What is synchronous growth? (c) What is phenol coefficient? (d) What are the biochemical properties of microbial (e) membranes? $1.5 \times 6 = 9$ Define active and passive transport. (f)

UNIT-I

they are remembered in microbiology field.

Describe the notable contributions of 5 Scientists for which

(a)

2.

	(b) Differentiate between Archaea, Bacteria & Eukar	ya domains.
	1-0-1-0 1 and most	3,3
3.	Discuss the principle and uses of bright field and	florescent
	microscope.	6
	UNIT-II	
4.	What is the importance of bacterial endospores? Brief	fly describe
	endospore formation and germination process.	6
5.	Define bacterial growth curve. Highlight the factors resp	onsible for
	the onset of each phase.	6
	1- Attempt five questions in all. O. No. 1 is comput	Note
	selections que III-IIIU each Unit (I-IV).	
6.	Describe various physical methods of sterilization an	d highlight
	advantages and disadvantages of each.	6
7.	(a) What is microbial death? Why does a population of not die instantaneously when exposed to antimicro	
	(b) Write a note on Chemical Disinfectants.	2,4
	(d) What is phenol coefficient?	
	UNIT-IV	
8.	Briefly describe the various types of membrane transports in Prokaryotes.	
	(f) Define active and passive transport.	
9.	Write short notes on:	
	(a) Photosynthetic microbes	
	(b) Photo phosphorylation.	3,3
	they are remainbored in microbiology field	

200

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