(Following Paper ID and Roll No. to be filled in your Answer B-PAPER ID : 5053 Roll No.					(e)	Classify the methods of isolation of bacteria and discuss any one of them.
B. PHARM. (SEM. IV) EXAMINATION, 2006-07 PHARMACEUTICAL MICROBIOLOGY				3	Answer any four :	
					(a)	Describe the method A as test procedure in
						official tests for sterility.
Time: 3 Hours] [Total Marks			: 80	o		o) Describe the bacteriological media and test- organisms used in official tests for sterility.
Note		(1) Answer all questions.			(c)	Discuss a method for selecting recombinant
(2) All questions carry equal marks.				(d)	bacteria. Discuss the production of monclonal antibodies.	
1	Ans	nswer any four :			(e)	Define mutation. How do mutations occur in
	(a)	Describe the structure of capsules in bacteria.			(0)	bacteria?
		What are their functions?			.	
	(b)	Discuss the general structure of a bacterial cell,		4	Ansv (a)	wer any two : Discuss the influence of the following factors:
	(0)	with the help of a labelled diagram. Give one method of classification of bacteria,			(a)	on efficiency of a disinfectant:
	(c)	giving examples.				(i) Concentration of disinfectant
	(d)	Discus the scope of indutrial microbiology.				(ii) Temperature
	(e)	How is an endospore formed in bacteria? How				Discuss the merits and demerits of phenol
		does it differ from an exospore?			4.3	coefficient tests.
				(p)	Discuss the principle, construction and working of a Wet-Heat sterilizer. What are its	
2	Answer any four:		4×4			applications?
	(a) (b)	Describe acid fast staining of bacteria. Discuss the principle of Transmission Electron			(c)	Classify disinfectants giving examples. Describe
	(0)	Microscope (TEM) with the help of a working			` '	the characteristics of various types of bacteria-
		diagram				proof filter media, giving examples.
	(c)	Discuss the cultivation of viruses using tissue		5	Writ	Write notes on any four:
	_	culture technique.		-	(a)	Principle of microbiological assay of vitamins
	(d)	Describe the conditions/methods for cultivation			(b)	Endotoxins
		of anerobic bacteria.			(c)	External Defense Mechanisms

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(d)

(e)

Phagocytosis

Complement system

 4×4

8×2

 4×4