S.Y.B.PHARM. SEMESTER-IV (CBCS - 2015 COURSE) : SUMMER - 2018

SUBJECT: PHARMACEUTICAL MICROBIOLOGY – II

Day Date	:	S 2018-3977		Time: 02.00 PM TO 05.00 P M Max. Marks: 60		
N.B.:	1) 2) 3)	Q.No.1 and Q.No.5 are COMPULSORY. Out of the remaining questions attempt ANY TWO questions from each section. Answers to both the sections should be written in SEPARATE answer books. Figures to the right indicate FULL marks.				
			SECTION – I			
Q.1	a)b)c)d)e)f)	Enlist various strain improvement methods. Define COD and BOD. Draw a well labeled diagram of Trickling Filters.		[10]		
Q.2	a) b)	How to design and monitor fermentation process? Write the significance of MIC. How it is determined?		[06] [04]		
Q.3	a) b)	Explain post fermentation processing in detail. How to assess preservative efficacy?		[06] [04]		
Q.4	a) b) c)	Write short notes on ANY TWO of the following: Microbial assay of Vitamin B12 Fermentation Media Assessment of Microbial Contamination SECTION – II			[10]	
Q.5	a) b) c) d) e) f)	Classify vaccin Define and exp What causes se Compare Activ What is Coomb	FIVE of the following: les with examples. lain Hapten. rum sickness? e and Passive Immunity.		[10]	
Q.6	a) b)	Discuss Hybridoma Technology in detail. What is Phagocytosis?			[06] [04]	
Q. 7	a) b)	Explain production of bacterial vaccines in detail. Describe the structure of Antibody.		letail.	[06] [04]	
Q.8	a) b) c)	Probiotics	es on ANY TWO of the folloope Ag – Ab reactions sensitivity	owing:	[10]	

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