

MCK-014-003601

Seat No.

M. P. M. (Sem. VI) (CBCS) Examination

May / June - 2018

Pharmaceutical Microbiology & Biotechnology - II

Faculty Code: 014

Subject Code: 003601

Time: Hours [Total Marks: 80

Instructions: (1) Figure to the right indicates marks.

- (2) Answer the three (03) questions from each section.
- (3) Question one (1) and question five (5) are compulsory.
- (4) Draw neat and clean diagrams as required.

SECTION - I

- 1 Write notes on following: (any **Seven** out of ten) $2\times7=14$
 - (A) Humulin
 - (B) Translocation
 - (C) Frame shift mutation
 - (D) B cells and T cells
 - (E) RIA
 - (F) Steady State
 - (G) Nucleotide
 - (H) Nucleosome
 - (I) Synkaryocyte
 - (J) Rh factors
- **2** Answer the following:
 - (A) What do you mean by Mutation? Write a detail note 7 on types of mutations.
 - (B) Write a note on physical mutagenic agents.

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3	Answer the following:			
	(A)	What is gene expression? Describe Transcription process in detail.	7	
	(B)	Write a detail note on post transcriptional modifications.	6	
4	Answer the following:			
	(A)	What are monoclonal antibodies? How are they are harvested?	7	
	(B)	Write a detail note on techniques of protoplast fusion.	6	
		SECTION - II		
5	Ans	wer any two out of three: 7×2=	14	
	(A)	Describe the structure and functions of MHC-II molecule.		
	(B)	What is inflammation? Describe the clinical symptoms and the physiological processes involved with the process.		
	(C)	What do you understand by the term Hypersensitivity? Explain different classes of it?		
6	Answer the following:			
	(A)	Discuss the ABO system of blood group?	7	
	(B)	What do you mean by Haematopoeitic growth factors? Write a detail note on EPO growth factor.	6	
7	Answer the following:			
	(A)	Define Transduction and its mechanism in detail.	7	
	(B)	Write a detail note on blue white screening?	6	
8	Ans	Answer the following:		
	(A)	What is a fermenter? How does it function?	7	
	(B)	What is downstream processing? What are the various steps involved?	6	