B.Sc. (C.B.C.S. Pattern) Sem-V

USMBT-12: Microbiology DSE Paper-IV - Pharmaceutical Microbiology P. Pages: 2 GUG/W/19/13107

P. Pages: 2 Time: Three Hours			GUG/W/19/13107 Max. Marks : 50	
1.		What is phytopharmaceutical? Give the various screening tests for phytoconstituents.	10	
		OR		
	a)	Give brief account on the classification of pharmacologic agents.	21/2	
	b)	Write a note on alkaloids.	21/2	
	c)	Write a note on Terpenoids.	21/2	
	d)	Give brief information about phytopharmaceutical products.	21/2	
2.		Discus the process of Drug development in detail.	10	
		OR		
	a)	Write a note on in vitro assay system based on enzymes for drug.	21/2	
	b)	Give the information about transgenic animals regarding to anima models.	21/2	
	c)	Discuss in vitro assay system based on growth inhibition.	21/2	
	d)	Describe antiparasitic activity study of drug.	21/2	
3.		What is Vaccine? Give the information about genetically recombinant vaccines with its advantages and disadvantages.	10	
		OR		
	a)	Write a note on gene therapy.	21/2	
	b)	What are the potential targets of gene therapy.	21/2	
	c)	Discuss the mechanism of DNA vaccines.	21/2	
	d)	Give the information about monoclonal antibodies.	21/2	
4.		What are the various phases of clinical trials used to study the biomolecules? Discuss in detail.	10	
		OR		
	a)	Write a note on Probiotic.	21/2	
	b)	Discuss about preclinical trials done on biomolecules.	21/2	

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	c)	Give the information about legal considerations in pharmaceutical biotechnology for biomolecules.			
	d)	Write a note on drug control.			
5.		Solve any ten of the following.			
		a)	Define Phytopharmaceuticals.	1	
		b)	Enlist any two examples of alkaloids.	1	
		c)	Give the examples of commercial natural products from marine organisms.	1	
		d)	Give the examples of transgenic animal.	1	
		e)	What is Cell lines?	1	
		f)	Enlist any two examples of human parasite.	1	
		g)	What is genetically recombinant vaccine?	1	
		h)	Give the examples of inherited disorder.	1	
		i)	What is the use of monoclonal antibody?	1	
		j)	Define Probiotic.	1	
		k)	What is FDA?	1	
		1)	Give the full form of ICMR.	1	
