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Question Paper Code: 99905

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

Elective

Chemical Engineering

19UCH905 - DRUGS AND PHARMACEUTICAL TECHNOLOGY

(Regulation 2019)

		(Regula	111011 2019)		
Dur	ation: Three hours			Max	imum: 100 Marks
		Answer Al	LL Questions		
		PART A - (10	x 1 = 10 Marks		
1.	Full form of HVAC				CO1- U
	(a) Heating, ventilation	on, and air cooling	(b) Heat, vent	ilation, an	d air conditioning
	(c) Heating, ventilation	on, and air condition	ing (d) None of at	oove	
2.	Price charged for a te	echnology should dep	oend upon following	:	CO1- U
	(a) Technology	(b) High profit	(c) Research	cost (d) Market force
3.	The principle of infra	ared spectra is based	upon		CO2- U
	(a) Electronic excitat	ion (b) Resonance	e (c) Dissociation	(d) Mol	ecular variations
4.	In UV spectrophoton	neter, the light source	e is		CO3- U
	(a) Tungsten lamp	(b) Sodium lamp	(c) Deuterium la	amp (d) None of these
5.	The mode of action of	of ethylene oxide is a	s a sterilization agen	t is by	CO3- U
	(a) Oxidation	(b) Reduction	(c) Alkylation	(d) Prot	tein precipitation
6.	Aspirin (pKa = 3.49)	will be most soluble	e at pH		CO3- U
	(a) 1	(b) 2	(c) 6	(d) 3.5	
7.	Drugs (Price control) are enforced by	order 1995 and rela	ated orders from time	e to time	CO4- U
	(a) NPPA	(b) CSIR	(c) DBT	(d) ICMR
8.	The mode of action of	of ethylene oxide as a	a sterilization agent i	s by	CO4- U
	(a) Oxidation	(b) Reduction	(c) Alkalylation	(d) Prote	ein precipitation

9.	Whi	CO	5- U				
	(a) A	Alpha radiations ((b) Gamma radiations				
	(c) I	Beta radiations ((d) None of the above				
10.	All	the following drugs induced cytochrome P 450) except	C	O5- U		
	(a) I	Ketoconzole (b) Phenobarbitone (c	c) Rifampicin (d)	(d) Alcohol			
		$PART - B (5 \times 2 = 10 \text{ M})$	Marks)				
11.	Wha	at are the types of therapeutic agents?		C	O1- U		
12.	Def	ine partition co-efficient.		C	O2- U		
13.	Wha	at is meant by alkylation?		CO3- U			
14.	Wha	What are the types of tablet?					
15.	Wha	C	O5- U				
		$PART - C (5 \times 16 = 8)$	80 Marks)				
16.	(a)	Explain briefly about therapeutic agents and to Or	heir applications.	CO1- U	(16)		
	(b)	What are therapeutic proteins? Explain the recombinant proteins as pharmaceutical drugs	CO1- U	(16)			
17.	(a)	Explain in detail about the various physicocl drugs action.	hemical properties of	CO2- U	(16)		
	(b)	Or What are the peptide hormones? Give the various peptide hormones used in substitution		CO2- U	(16)		
18.	(a)	Explain in detail about the sulfonation process industries.	s used in drug	CO3- U	(16)		
	(b)	Or Write in detail about the dehydration process preserves foods?	and how dehydration	CO3- U	(16)		
19.	(a)	Give the details account of advancement granulation. Or	techniques used in	CO4- U	(16)		
	(b)	Explain in detail about the coating pills and of tablet coating.	write the importance	CO4- U	(16)		

20. (a) Give the detail account of polarimetry techniques used in CO5-U (16) pharmaceutical analysis.

Or

(b) Explain in detail about the refractometry and phmetry techniques CO5- U (16) used in pharmaceutical analysis