A		Reg. No. :										
	Question Paper Code: 59922											
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019												
Elective												
Chemical Engineering												
15UCH922-DRUGS AND PHARAMACEUTICAL TECHNOLOGY												
(Regulation 2015)												
Dur	aration: Three hours Maximum: 100 Marks											
Answer ALL Questions												
PART A - (10 x 1 = 10 Marks)												
1.	One Becquerel (Bq) is equal to								CO1- R			
	(a) S^{-1} (b)	(b) m (c) Kg (d) None of these						ese				
2.	The evidence which indicates that a drug is stored extra vascularly is: CO								CO1- R			
	(a) Small clearance (b) Small apparent volume of distril							listribu	tion			
	(c) Large apparent volume of distribution (d) Large clearance											
3.	Clinical trials for the import and manufacture of new drugs are to be carried CO2- R											
	out as per: (a) Schedule C and C1 (b) UGC guidelines (c) Schedule Y (d) None of the											
4.	(a) Schedule C and C1 (b) UGC guidelines (c) Schedule Y (d) Non Phase IV of clinical trial is performed								CO2- R			
	 (a) Before drug approval (b) After drug approval (c) During pharmacological screening (d) During pharmacokinetic study 											
5.	Drying of blood products and enzyme based preparation is carried out by CO3- R											
	(a) Vacuum drying	(b) Fluidized bed	drying	(c) l	Lyophili	zation	. (0	d) Tuni	nel drying			
6.	. Williamson Synthesis is used for the preparation of:								CO3- R			
	(a) Aldehydes	(b) Alcohols		(c) I	Ethers		(0	(d) Amides				

The Drugs and Magic Remedies (Objectionable Advertisements) Act 1954 applies to all except												
(a)	Dadra & Nagar Have	r										
. ,			(d) Puducherry	· •								
	-	ion of penicillin by	fermentation, the pH	18	CO4- R							
(a)	1 to 4	(b) 4.8 to 5.2	(c) 6.8 to 7.4	(d) 6 to 7								
In U	In UV spectrophotometer, the light source is											
(a) [(a) Tungsten lamp (b) Sodium lamp											
(c) l	(c) Deuterium lamp (d) None of the above											
Ion-	Ion-exchange chromatography is used for the separation of											
(a)) Aldehydes (b) Aminoacids (c) Fatty acids (d) Hydr											
PART - B (5 x 2= 10 Marks)												
Explain the term pharmacopoeia												
Express the solubility of an OMA in terms of its affinity												
Write short notes on barbiturates												
Define tablet coating.												
Explain the terms (i) Antiseptics (ii) Antacids.												
		PART – C (5 x 1	6= 80 Marks)									
(a)	Give the detailed ac		,	CO1- U	(16)							
	Or											
(b)	Describe organic th	erapeutic agents and th	eir uses.	CO1- U	(16)							
(a)	peptide hormones used as substitution therapy.											
(b)	Explain in detail antibiotics.		and list out the type of	E CO2- U	J (16)							
(a)	Write step by step its applications.	-	ation process and list out	t CO3- U	J (16)							
	 appl (a) 1 (c) A For main (a) 1 (c) I Ion- (a) 1 (c) I Ion- (a) 1 Exp Exp Write Defi Exp (a) (b) (a) (b) (a) 	 applies to all except (a) Dadra & Nagar Have (c) Andaman & Nicobar For increased products maintained between (a) 1 to 4 In UV spectrophotometee (a) Tungsten lamp (c) Deuterium lamp Ion-exchange chromatoge (a) Aldehydes Explain the term pharma Express the solubility of Write short notes on bard Define tablet coating. Explain the terms (i) And (a) Give the detailed act (b) Describe organic the peptide hormones uppetide hormo	applies to all except (a) Dadra & Nagar Haveli (c) Andaman & Nicobar Islands For increased production of penicillin by maintained between (a) 1 to 4 (b) 4.8 to 5.2 In UV spectrophotometer, the light source is (a) Tungsten lamp (c) Deuterium lamp Ion-exchange chromatography is used for the set (a) Aldehydes (b) Aminoacids PART – B (5 x 2= Explain the term pharmacopoeia Express the solubility of an OMA in terms of its Write short notes on barbiturates Define tablet coating. Explain the terms (i) Antiseptics (ii) Antacids. PART – C (5 x 1 (a) Give the detailed account of the history of Or (b) Describe organic therapeutic agents and th (a) What are peptide hormones? Give the det peptide hormones used as substitution ther Or (b) Explain in detail about the antibiotics antibiotics. (a) Write step by step procedure for esterific	applies to all except(a) Dadra & Nagar Haveli(b) Jammu & Kashmi(c) Andaman & Nicobar Islands(d) PuducherryFor increased production of penicillin by fermentation, the pH maintained between(a) 1 to 4(b) 4.8 to 5.2(c) 6.8 to 7.4(a) Tungsten lamp(b) 4.8 to 5.2(c) 6.8 to 7.4(a) Tungsten lamp(d) None of the above(a) Tungsten lamp(d) None of the above(a) Aldehydes(b) Aminoacids(c) Fatty acids(d) Aldehydes(b) Aminoacids(c) Fatty acids(d) PART – B (5 x 2= 10 Marks)Explain the term pharmacopoeiaExpress the solubility of an OMA in terms of its affinityWrite short notes on barbituratesDefine tablet coating.Explain the terms (i) Antiseptics (ii) Antacids.PART – C (5 x 16= 80 Marks)(a) Give the detailed account of the history of rug discovery Or(b) Describe organic therapeutic agents and their uses.(a) What are peptide hormones? Give the detail account of the various peptide hormones used as substitution therapy. Or(b) Explain in detail about the antibiotics and list out the type of antibiotics.(a) Write step by step procedure for esterification process and list out its applications.	applies to all except(a) Dadra & Nagar Haveli(b) Jammu & Kashmir(c) Andaman & Nicobar Islands(d) PuducherryFor increased production of penicillin by fermentation, the pH is maintained between(a) 1 to 4(b) 4.8 to 5.2(c) 6.8 to 7.4(a) Tungsten lamp(b) Sodium lamp(c) Deuterium lamp(d) None of the aboveIon-exchange chromatography is used for the separation of(a) Aldehydes(b) Aminoacids(c) Fatty acids(d) Hydrocar PART – B (5 x 2= 10 Marks)Explain the term pharmacopoeiaExpress the solubility of an OMA in terms of its affinity Write short notes on barbituratesDefine tablet coating.Explain the terms (i) Antiseptics (ii) Antacids. Or(a) Give the detailed account of the history of drug discovery OrCO1- U Or(a) What are peptide hormones? Give the detail account of the various are substitution therapy. OrCO2- U antibiotics.(a) What are peptide hormones used as substitution therapy. OrOr(b) Explain in detail about the antibiotics and list out the type of CO2- U antibiotics.CO1- U CO3- U antibiotics.							

Or

- (b) Write in detail about the halogenation process used in the drugs CO3-U (16) industries.
- 19. (a) List out the standards followed for hygiene and manufacturing CO4- U (16) practices in pharmaceutical industries

Or

- (b) Explain in detail about the coating pills and write the important of CO4- U (16) tablet coating.
- 20. (a) What are the causes of acid indigestion? and clarify the antacid CO5-U (16) activities

Or

(b) Give the detailed account of Polarimetry techniques used in CO5-U (16) pharmaceutical analysis.