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## BP 704 T

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## 2021

## B.Pharm. 7th Semester (Regular) Examination

			(New Regula	ation w.e.	.f. 2017-18)			
Ful	l Mar	ks – '	75		Time - Three hours			
NICE OF STREET		Th	ne figures in the margin in	ndicate ful	l marks for the questions.			
	Ans	wer a	all questions.					
1.	Mul	tiple	choice questions (MCQ) (	Answer all	l questions),. $(20 \times 1 = 20)$			
	(i)	Imn	n lack this feature					
	- 111	(a)	Dose maintenance	(b)	Controlled release rate			
E C		(c)	Site targeting	(d)	All of the above			
15	(ii)	d for controlled release should be						
		(a)	3-4 hrs	(b)	1-2 hrs			
		(c)	6-7 hrs	(d)	9-10 hrs			
	(iii)	Bio	leavage of					
		(a)	Covalent bonds	(b)	Polar bonds			
		(c)	Ionic bonds	(d)	Metallic bonds			
	(iv)	Exa	imple of natural polymer					
		(a)	Protiens-collagen	(b)	Keratin			
		(c)	Cellulose	(d)	All of the above			
	(v)	(v) Bypass of hepatic portal system, increase the — of d						
		(a)	Solubility	(b)	pH			
		(c)	Bioavailabilty	(d)	All of the above			
	(vi)	Foll	lowing are major compone	ents of muc	cus gel except			
		(a)	Glycoproteins	(b)	Lipids			
	7	(c)	Water	(d)	Amino acids			

(VII)	Imp	plants are administered in bo	oay exce	ept					
	(a)	Subcutaneously	(b)	Sublingual					
5	(c)	Intramuscular	(d)	Intravenous					
(viii)	It is	used to make osmotic pump	implai	nt .					
	(a).	Titanium alloy	(b)	Zinc dust					
	(c)	Carbon	(d)	Magnesium					
(ix)	Skin of a average adult body has surface area								
	(a)	$1m^2$	(b)	$2m^2$					
	(c)	$3m^2$	(d)	4m <sup>2</sup>					
(x)	Outermost layer of skin is								
	(a)	Dermis	(b)	Epidermis					
	(c)	Hypodermis	(d)	Hyperdermis					
(xi)	Thi	s is not chemical permeation	enhan	cer					
	(a)	Fatty acid	(b)	Alcohol					
	(c)	Zein	(d)	Glycol					
xii)	Materials used for bioadhesion except								
	(a)	Chitosan	(b)	Sodium bicarbonate					
	(c)	Tragacanth	(d)	Sodium alginate					
xiii)	Hui	mectant used in nasal produ	cts						
	(a)	Mannitol	(b)	Starch					
	(c)	Celloluse	(d)	Tragacanth					
xiv)	The	centre of the retina is called	1						
	(a)	Canula	(b)	Macula					
	(c)	Eye retina	(d)	None of the above					
(xv)	The	sclera has large surface are	a than						
	(a)	Retina	(b)	Ciliary muscle					
	(c)	Cornea	(d)	All of the above					
(xvi)	Cop	per containing IUDs causes							
1	(a)	Fertilization	(b)	Lysosomal inactivation					
	(c)	Lysosomal activation	(d)	None of above					
(xvi	i) Di	sadvantage of TDDS							
	(a)	Cannot be develop for drug	gs of lar	ge molecular size					
	(b)	It avoids avoid first pass n	nechani	sm					
11 9	(c)	It deliver drug in predeter	mined r	ate					
	(b)	None of the above							

2

	(xvi	ii) B	uffer used in nasal spray						
		(a)	Sorbitol	(b)	EDTA				
		(c)	Sodium phosphate	(d)	Sodium bisulfite				
	(xix	) Pill	s should have density of —	(t)	— g/ml for floating in GRDDS				
		(a)	>1	(b)	<1				
		(c)	<2	(d)	No effect				
	(xx)	Exa	ample of penetration enhan	cer in TD	DS				
		(a)	Dimethylsulfoxide	(b)	Silicon				
		(c)	PVC	(d)	Polyisobutylene				
2.	Lon	Long answers (Answer 2 out of 3) $(2 \times 10 = 20)$							
	(a)	(a) What are IUDs? Give an account of development of IUDs. Discuss about the applications of IUDs.							
	(b)	Write the mechanism of bioadhesion. Write about the formulation of bucca drug delivery system.							
	(c)	What do you mean by microencapsulation? Explain the different methods to prepare micro spheres.							
3.	Sho	rt an	swers (Answer 7 out of 9)		$(7 \times 5 = 35)$				
	(a)	What are hydrogels? Write about their advantages and disadvantages.							
	(b)	What are the ideal characteristics of a polymer? Discuss the applications of polymers.							
	(c)	Write a note on factors influencing the formulation of controlled drug delivery system.							
	(d)	(d) Write a note on Universal indicators. Explain the Buffer equation.							
	(e)	(e) Write down the advantages of TDDS. Explain the components of TDDS.							
	(f)	(f) Discuss the formulation of inhalers.							
	(g)	(g) Write a note on nanoparticles.							
	(h)	h) What are intraocular barriers? What are the methods to overcome these barriers?							
	(i)	Writ	te a note on						
		(i)	Liposomes	9 <sup></sup>					
		(ii)	Monoclonal antibodies.	17					