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Ans	swer	Question No.1 (Par	t-1) whic		omp m Pa			ıy Se	ven	from	Par	t-II and	d any tw	10	
		The figur	es in the	right	-han	d ma	rgin	indic	ate r	mark	s.				
					Dowt										
Q1	257	Answer the following	257 a guestion	16.	Part	257			257			257	(2 × 1	257	
QΙ	a)	What is Atropisomers		13.									(2 ~)	ΙΟ)	
	b)	What is E-Z System of geometrical isomers?													
	c)	Why Friedel crafts reaction is not possible on pyridine?													
	d)	Differentiate between diastereomers and enantiomers.													
	e)	Write the Structure and Medicinal use of Imidazole.													
	f)	Write the Structure and Medicinal use of Purine. What is the use of NaBH ₄ and LiAlH ₄ ? Why Pyrole is week base than pyridine													
	g) ₇ h)														
	i)	Describe the isomerism exhibited by maleic acid and fumaric acid.													
	j)	What is the necessary	y condition	for a	comp	ound	to sho	ow op	tical i	isome	erism?	?			
					Part-								/		
Q2		Focused-Short Ansv			ions-	(Ans	wer A	Iny S)			(5 ×	•	
	a)7	Explain about asymm	•			257			257			257		257	
	b)	Write short note on preparation and chemical properties of Indole.													
	C)	State and explain with structural mechanism - Electrophilic substitution reaction													
	d)	favour C2 position in Furan. I) Write a Short Note on Geometric Isomerism.													
	e)														
	f)	Discuss the conforma	-				xane.								
	g) ₇	What is Stereospecific			•				257			257		257	
	h)	•	Write in brief note on chromatographic and biochemical methods used for												
	i)	resolution of racemic mixture. Discuss the mechanism and synthetic applications of Beckmann rearrangement.													
	,		,								3				
		Long Anouser Turns	Dugotion -		Part-		wa\								
∩ 2		Long Answer Type C		•		-	•	nloo	Dicc	100 th	no 80	allono	. (40	`	
Q3	257	Explain R and S syst				with (exam	pies.	Discl	มรร เก	ie 56	quence	e (10	257	
Q4		Discuss the synthesis	, chemical	react	ion an	id me	dicina	ıl use:	s of F	yrazo	ole.		(10)	



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4 th Semester Regular / Back Examination: 2021-22 MEDICINAL CHEMISTRY- I BRANCH(S): B.Pharm Time: 3 Hour															
	257	257		257	Max I	Mark	s:7	5		257			257		257
Λn	Q.Code: J440 Answer Question No. 1 (Part 1) which is compulsory, any eight from Part II and any two														
All	Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.														
	The figures in the right hand margin indicate marks.														
Q1	257 a) b) c) d) e) f)	Answer the following What do you mean by Give two examples of Define phase II reaction? Write the name of CO Write down the use of Define adrenergic block.	futur non o ons. MT a	e med classic nd MC amine.	s: dicine? cal Bio DA.		ers.	1	F	257			257	(2 ×10	
	h) i) j)	Define cholinergic sys Write two examples of Define the term sedat	tem a f synt ive ar	and its hetic a nd hyp	amino- onotics F	-alcoh s. Part-l				257	1		257	<i>(</i> =	257
Q2	a) b) c) d) e) f) g) h)	Focused-Short Answ Write down few exam Give the classification What do you mean by Give classification of a Write the mechanism Write a brief note on N Write the mechanism Explain briefly about to Write the factors affect	ples of and of actions	of short use of clonic nvulsa- tion of tion of drene	rt actir c seizu ant dru gener and Na NSAI rgic bl	ng bar sycho ures. ugs w ral an aloxo Ds. locker	rbitur otic d vith ex nesthene.	ates v rugs v xampl	with th with e	neir u	ses		257	(5 × 7	257
	257	257		257	F	Part-II	257			257			257		257
Q3		Long Answer Type C Explain the types of b of these bondings.			(Answ	er Aı	ny T		olism	and s	specif	y imp	ortance	: (10)	
Q4		Explain various enzyn	nes in	volve	d in dr	ug m	etab	olism	and t	heir iı	nport	ance.		(10)	
Q5	257	Explain the mechanis Naphazoline.	sm of	actic	on and	d fund	ction	s of T	Γerbu	taline	, Sal	butan	no⊵₃and	(10)	257
Q6		Write the SAR of Antio	cholin	ergic	drugs.									(10)	

²⁵⁷ Visit: https:/pharmacyindia.co.in⁵⁷

Registration No: **B.Pharm Total Number of Pages: 01 BP403T** 4th Semester Regular / Back Examination: 2021-22 PHYSICAL PHARMACEUTICS-II BRANCH(S): B.Pharma Time: 3 Hour Max Marks: 75 257 Q.Code: J513 Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III. The figures in the right hand margin indicate marks. Part-I Q1 (2×10) **Answer the following questions:** Define Colloidal and Coarse dispersion. b) Write Gold number with its Significance. What is glidant? Write two suitable examples of it. C) Define Rheology. Give any two applications d) What is yield value? Write it's application. e) What are Bulges and Spurs? Differentiate between emulsions and suspensions g) Describe carr's index h) Define rate and order of a reaction i) j) 7 Zero order reactions are dependent upon the concentration of reactant. Comment. Part-II Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5×7) a) State Edmundson's equation. b) Give expressions for rate constant and half-life of first order reaction. What is specific surface area? How is it measured by air permeability method Explain porosity. Give it's applications in pharmacy. Differentiate between flocculated and deflocculated suspensions. Write HLB scale showing classification of surfactant function Discuss plastic and pseudoplastic system of flow g) Explain the principle of cup & bob viscometer h) i) Explain kinetic properties of colloids Part-III Long Answer Type Questions (Answer Any Two) Q3 Define how shelf life of a medicinal product is determined (10)Q4 What are colloids? Give example. Explain any four methods of preparation of (10)different types of colloids. Q5 (10)Define Thixotropy, mention the basic mechanism and give its applications in pharmacy. Q6 257 Explain in detail interfacial properties of suspended particles. (10)

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	۸r	SWO	r Question No.1 (I			, any sight from	n Part₋II and a	ny two							
	Ai	13 W C	Question No.1 (rom Part-III.	, any eight hoi	ii Fait-ii aiiu a	illy two							
7		257	The fig			in indicate mai	'ks. ₂₅₇	257							
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			Part-I												
	Q1		Answer the follow Define Agonist and			(2 × 10)									
		a)													
		b)													
		c) d)	Define the term dru Define plasma half-	•	•										
7		e)57					nistration 257	257							
, ,		e) Write different factors governing for the choice of route of drug administration.257 Write the mechanism of action of Salbutamol.													
		g)	What is SSRIs? Define synergism with examples.												
		h)													
		i)	Write the mechanism of action of Salbutamol.												
		j)	Name two drugs us	sed in glaucoma											
					Part-II										
7	Q2	257	Enguered Chart An	OWAR TWEST OUR		(ar Any Califan)	257	(5 × 7) 257							
	QZ		Focused-Short Ar		•		tventeges and	(5 × 7) ²⁵⁷							
		a)	Describe the different routes of drug administration with their advantages and												
		b)	disadvantages. Write the differences in pharmacological actions of Anti-cholinesterase and Anti-												
		-,	cholinergic drugs.												
		c)	Describe the pharm	nacology of Beta	adrenergic bloc	ckers.									
		d)	Describe the pharm	nacology of Loca	al anesthetics.										
7		e) 57	Describe the pharm	nacology of skele	etal muscle rela	xants. ₂₅₇	257	257							
		f)	Classify the antiep phenytoin.	ileptic drugs wit	h examples. W	rite the mechanis	m of action of								
		g)	Classify antidepresants.		the pharmac	cological actions	of Tricyclic								
		h)	Write note on CNS												
		i)	Write note on Plasr	na protein bindir	ng.										
57		257	257	257	257	257	257	257							

Part-III²⁵⁷ Long Answer Type Questions (Answer Any Two) Q3 Define and classify receptor. (3)a) Explain the G-protein coupled receptor mediated mechanism of drug action. b) Q4 a) Define neurohumoral transmission and explain briefly the neurohumoral (5) transmission of cholinergic nerves. Write the pharmacological action, side effects and uses of cholinergic drugs. (5) **b**) Q5 Define and classify Sedatives and Hypnotics. (4)a) b) Write the mechanism of action, adverse effects and therapeutic uses of (6) Benzodiazepines. Q6 a) Classify the drugs used in Parkinsonism. (5) b) Write pharmacological action and adverse effects of levodopa. (5)

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Ai Q1	a) b) ⁷ c) d)	The figure Answer the following Define Pharmacognos Write the biological so What is stomatal index What is mutation? Define secondary met	ares i	Max 257 Q. hich is co n the righ estions : and uses	SY & I CH: E me : 3 x Marl Code: mpuls Part- t han	PHYT B.Phai Hour Ks: 7: J674 Sory, III. d mai	OCHE rma 5 any s	even ndica	257	ı Part	:-II an	257 d any t v 257		257			
Q2	f) g) h) i) j) a) b) c) d) e) f) g) h) i)	Write the applications Write the biological so Define Glycosides. Write the biological so Define Foreign organi Focused-Short Answ Lycopodium spore me Ash value. Write a note on Edible Write the general chei Give a note on Resins Define and write the p Explain about natural Write the pharmacogn Give a note on marine	urce urce c Mat ver Ty thod. vacc mical crincip allerg	and chemand uses ter? ype Quescines. tests of all tests of all profile of all pr	Partitions-kaloid	gacar 257 -II (Ans s. 257	wer A	Any S	257			257	(5 × 7	257 7)			
		Lang Analysis Time (iono (Ano	Part-												
Q3	257	What are crude drugs examples.		75/			,	e druç	gs in (detail	with	suitable	(10)	257			
Q4		Describe the various f	actor	s affecting	cultiv	ation	of me	dicina	al plar	nt.			(10))			
Q5		Define adulteration of with suitable examples		e drugs ar	nd Exp	olain a	bout	differ	ent ty	pes c	of adu	lterants	(10)				
Q6	257	What is plant tissue co			•	•			257 Vutrit i	onal	requir	ements	(10)	257			