	Regi	stration No :						
Total Number of Pages: 02			Number of Pages: 02 257 257 257				257	B.Pharm ₂₅₇ BP301T
					CHEMIS			
	257	257	257	Marks: 75	_	257	257	257
۸n	SW0		Q.Co	de : OF577		ht from I	Part II and	any two
AII	15 W C	r Question No.1 (Pa		n Part-III.	y, arry erg	iiit iroiii i	ait-ii ailu	any two
		The figure	es in the right		jin indica	te marks		
				Part-l				
Q1		Answer the following						(2×10)
	a) 7	What is Reichert- Meis	ssl value?	257		257	257	257
	b)	Structure and uses of						
	c)	What is Huckel's rule	•	_				
	d)	Write any two Qualitat						
	e) f)	Brief out on reduction Describe about Coulse						
	g)	Explain why benzoic a			tic acid?			
	h)	Write the structure and						
	i) 7	What do you mean Es				257	257	257
	j)	What happens when s	•		-	ne?		
			1	Part-II				
Q2		Focused-Short Answ	er Type Questi	ons- (Answ	er Any Se	even)		(5×7)
	a)	Write a note on Sachs	e Mohr's theory.					
	b)	Explain the Haworth s	•					
	ē }7				significand	e 57	257	257
	d)	What are lipids? Write	their classification	on in detail.				
	e)	Give reason why amm	nonia is stronger	base than a	niline?			
	f)	What are the methods	used for the syr	thesis of ph	enanthren	e.		
	g)	Discuss the reaction	and mechanism	of Friedel-	craft alkyla	ation and	Friedel-craft	
	h۱	acylation reaction.	on and offeet	of aubatitus	nto on the	o opidio d	baraatar of	
	h)	Explain the preparate Aromatic acids.	on and enect (oi substitue	nis on the	e acidic c	maracter or	
	1) ⁵⁷	Write the general met	nod of preparatio	ns and reac	tions of arc	omatic am	nes. ²⁵⁷	257
			,	Dorf III				
		Long Answer Type G		Part-III ver Anv Two	o)			
Q3		Outline any three prep	· · · · · · · · · · · · · · · · · · ·	-	=	Explain t	he acidity of	(10)
	257	Phenol. 257	257	257	3. 1 1101101	257	257	257
Q4		Explain the Hydrolysis	and Hydrogena	tion reaction	s of Fattv	acids. Wri	te a note on	(10)
		the types of rancidity a						\ - <i>I</i>
		·						

257	Q5	Explain the stability of cycloalkanes on the basis of Bayer strain theory. Mention the general two method of preparation and two Chemical reaction of cycloalkanes.							
	Q6	Write about the aror mechanism of Aromat					(10)		
257	257	257	257	257	257	257	257		
257	257	257	257	257	257	257	257		
257	257	257	257	257	257	257	257		
257	257	257	257	257	257	257	257		
257	257	257	257	257	257	257	257		
257	257	257	257	257	257	257	257		

	Regi	stration No :												
Tota	Total Number of Pages: 01										B.Pharm			
	257	257	257		257			257			257	BP302	257	
		3 rd Sem	ester Regula						21-22	2				
			PHYSICAL	. PHAR CH(S):										
				ime: 3			a							
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An	swe	r Question No.1 (Pa	•	.Code:0			nv ei	aht f	rom	Part-	lland	anv two	257	
		·	f	rom Pa	rt-III.	-	-					,	201	
		The figur	es in the rig	ht han	d ma	rgin	indic	ate r	nark	S.				
				Part	- I									
Q1	a)	Answer the followin Expressthe term solu										(2×10)		
	b)	Define glassy state.	•		057			257			057		257	
	c) (d)	Explain about sublimate What is boiling point a		ssure?	257			257			257		257	
	e)	Express polymorphisi	n with suitable	e examp										
	f) g)	What do you understa Differentiate between												
	h)	What is Sorensen's p	H scale?											
	i) j)	What is tonicity? Men Mention the physioch	•		rug m	olecu	les.							
	257	257	257	Part-	257			257			257		257	
Q2		Focused-Short Answe	er Type Quest			r Any	Seve	en)				(5×7)		
	a)	Define solution? Men			solut	e and	solve	ent in	teract	ion.		. ,		
	b) c)	Write notes on spread Narrate the basic prin	•											
	d)	Explain critical solution	•		applic	cation	ıs usir	ng sui	itable	exam	-			
	e) ⁷	Write a notes on HLB	•	tion	257			257			257		257	
	f) g)	What is chelate, men What is buffer, mention			e in ph	narma	ceuti	cal fie	eld?					
	h)	Write a notes on Eute	ctic mixture	•	•									
	i)	Mention how crystallii	ne differ from	amorpho	ous									
				Part-	III									
02	257	Long Answer Type (· ·		ny T	wo)		257			257	(40)	257	
Q3		What is Raoult`s law?	Describe it b	neny.								(10)		
Q4		What is universal gas	law, derive it.									(10)		
Q5		What is surfactant? C	lassify it and o	discuss t	the ph	arma	ceutio	cal ap	plicat	tion.		(10)		
Q6	257	Discuss details about complexation occurs.	complexation	, mentio	n hov	v drug	ј-βсус	lode	ktrin		257	(10)	257	
		complexation coodio.												

		Regi	stration No :						
57	Tota	al Nü	mber of Pages : 01	257	257	257	257	B. Pharm BP303T	257
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57		257	257		Marks :75 ode : OF712	257	257		257
	An	swe	r Question No.1 (Pa			ny seven fron	n Part-II and a	ny two	
			•	fro	m Part-III.	-		•	
			The figur	es in the right	t hand margin	indicate mar	ks.		
					Part-I				
57	Q1	b)	Answer the following Write down the nutrition Why for spread plate	onal requiremen method is carrie	d out?	257	257	(2×10)	257
		c) d) e)	Write the composition Draw a flow diagram of Give few examples of	of aseptic area. preservatives u	sed in pharmace	eutical formulati	ons.		
		f) g)	Differentiate disinfects What is Acid fast back	eria and give ar	example of it?	4 a.f. a. m. a. m. a. m. tilb	:-4:-1		
57		h) i <u>)</u>) ₅₇ j)	Write down the difference Mention the full form a Name any four Gram	and efficiency of	HEPA? 257	t of a new antib	257		257
					Part-II				
	Q2	a) b)	Focused-Short Answ Discuss briefly on the Factors influencing dis Bacterial growth curve	ne followings: sinfection	tions- (Answer	Any Seven)		(5×7)	
57		c) ₅₇ d) e)	Electron microscopy Classification and mo Application of cell cult	257 de of action of d		257	257		257
		f) g) h) i)	Sterility indicators Identification of bacte Gram's staining Classification of clean	_		;			
		-		_	Part-III 257				
57	Q3	257	Long Answer Type (Differentiate between		wer Any Two)	257 ng various featu	ures of them.	(10)	257
	Q4		What do you mean demerits and applicat				edure, merits,	(10)	
	Q5		Discuss briefly about	the principles ar	nd methods of di	fferent microbio	logical assay.	(10)	
57	Q6	257	What is cell culture? E	Explain in details	about the gene	ral procedure fo	or cell culture.	(10)	257

	Reg	istration No:											
Total Number of Pages: 02		257		2	57	•	257			B.Pharm 257 BP304T		257	
Ans	257 SWer		257	CEUTION RANCH Time: Max Max Max Outline Country Max	CAL EN l: B.Ph : 3 Hou Marks: : de: OF6	IGINE arma rs 75 662 ory, ai	ERIN	IG 257			257 l and a	any two	257
		The figur	es in the	_			indic	ate m	arks.				
					Part-I								
Q1		Answer the following	question		art-i							(2×10)	
	a) ₅₇ b) c)	Distinguish between d List out the different m Define equilibrium mo	rying and echanisms	evapora s of size	e reducti	on?	ire co	257 ntent?			257	, ,	257
	d)	Define black body and	grey body	/?									
	e) f)	What are the various of State Raoult's law and					rmaco	opoeia′	?				
	g)	What are the different	modes of	feed su	pply in n	nultiple							
	h)	What is meant by oprevented? 257	lead spot	in the	_		oment		how	it ca			0.55
	257 i) j)	What is overall heat tr Discuss about Stefan-			?	₅₇ nsfer b	y rad	257 iation?			257		257
					art-II								
Q2	-\	Focused-Short Answ	• •		•		•	•	410			(5×7)	
	a) b)	What are the reasons What are filter aids? H						•	ntea?				
	- ,	How multiple? effect	•		•				n sin	gle	effect		257
	٩/	evaporators? What is corrosion? Dis	scuse abou	ıt tha th	oorios o	f corre	scion?	,					
	d) e)	Describe the construc											
	f)	Explain the working of		•		0,		?					
	g)	Describe construction		•	•	_	?						
	h) i) ₅₇	What is Reynold's nur Describe the principle			-		ation?	257			257		257
					art-III	_ 、							
Q3		Write in detail on prin of fluidized bed dryer?	ciple, cons				vanta	ges an	d disa	advan	ıtages	(10)	
Q4		State Fourier's law? [(10)	

257	257	257	257	257	257	257	257
257	Q6 257	Derive Bernoulli's applications of Berno Write in detail on prof rotary drum filter?	oulli's theorem? inciple, construction				(10) (10) ₂₅₇
257	257	257	257	257	257	257	257
257	257	257	257	257	257	257	257
257	257	257	257	257	257	257	257
257	257	257	257	257	257	257	257
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257	257	257	257	257	257	257	257