Visit: https:/pharmacyindia.co.in										
	Regi	stration No :								
Tota	al <u>N</u> u	mber of Pages : 02	257	257		257	257	B.Pharm ₂₅₇ BP301T		
3 rd Semester Regular / Back Examination: 2021-22 PHARMACEUTICAL ORGANIC CHEMISTRY - II BRANCH(S): B.Pharma Time: 3 Hour Max Marks: 75 Q.Code: OF577 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 Answer the following questions: (2×10)										
	a)7 b) c) d) e) f) g) h) i) ⁷ j)	What is Reichert- Meis Structure and uses of What is Huckel's rule Write any two Qualitat Brief out on reduction Describe about Couls Explain why benzoic a Write the structure and What do you mean Es What happens when s	bsl value? DDT and BHC of aromaticity? tive tests for Phereaction of phere on and Moffitt's acid is stronger d uses of Sacclessential fatty ac	enol. nanthrene. modification acid than ach arin and Ch id? Give the te is heated w	etic acid? loramine. examples.		257	257		
Q2	a) b) c)7 d) e) f) g) h)	Focused-Short Answ Write a note on Sachs Explain the Haworth s Determination of acid What are lipids? Write Give reason why amn What are the methods Discuss the reaction acylation reaction. Explain the preparat Aromatic acids. Write the general met	se Mohr's theore synthesis for Nativalue & lodine their classification is stronged and mechanistion and effect	y. phthalene. value with its tion in detail. r base than a ynthesis of pl m of Friedel of substitue	s significan aniline? henanthre -craft alky	nce, ne. rlation and the acidic	character o			
Q3	257	Long Answer Type Outline any three prephenol. 257	=	-	=	ol. Explain	the acidity o	f (10) 257		
Q4		Explain the Hydrolysis the types of rancidity a					rite a note oi	n (10)		

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	al Nu	stration No :		3.Pharm BP302T	
	257	3 rd Semester Regular / Back Examination: 2021-22 PHYSICAL PHARMACEUTICS-I BRANCH(S): B.Pharma	257		257
		Time: 3 Hour Max Marks : 75			
An	iswe	Q.Code:OF612 r Question No.1 (Part-1) which is compulsory, any eight from Part-II.	and a	ny two	257
		from Part-III.		•	
		The figures in the right hand margin indicate marks.			
		Part-l			
Q1		Answer the following questions:	(2×1		
	a)	Expressthe term solubility.			
	b) c) ⁷	Define glassy state. Explain about sublimation. 257 257 257	257		257
	d)	What is boiling point and vapor pressure?			
	e)	Express polymorphism with suitable example.	_		
	f)	What do you understand the term glass transition temperature?			
	g) h)	Differentiate between surface tension and interfacial tension. What is Sorensen's pH scale?			
	i)	What is tonicity? Mention its importance.			
	j) 257	Mention the physiochemical properties of drug molecules.	257		257
		Part-II			
Q2		Focused-Short Answer Type Questions- (Answer Any Seven)		(5×7)	
	a)	Define solution? Mention the mechanism of solute and solvent interaction.			
	b)	Write notes on spreading coefficient.			
	c)	Narrate the basic principles of aerosol.			
	d)	Explain critical solution temperature and its applications using suitable example Write a notes on HLB system 257 257	e. 257		257
	e) f)	What is chelate, mention its application			
	g)	What is buffer, mention how it is importance in pharmaceutical field?			
	h)	Write a notes on Eutectic mixture			
	i)	Mention how crystalline differ from amorphous			
		Part-III			
	257	Long Answer Type Questions (Answer Any Two)	257		257
Q 3		What is Raoult's law? Describe it briefly.		(10)	
Q4		What is universal gas law, derive it.		(10)	
Q5		What is surfactant? Classify it and discuss the pharmaceutical application.		(10)	
Q6	257	Discuss details about complexation, mention how drug-βcyclodextrin complexation occurs.	257	(10)	257

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	l Nű	mber of Pages : 01	257	257	257	²⁵⁷ B. Pharn BP303						
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				ne: 3 Hour								
	257	257		x Marks :75 ode : OF712	257	257						
۸n	CWO	Ougstion No 1 (Par			ay sayan from F	Part II and any two						
All	swei	Question No.1 (Par		om Part-III.	iy seven ironi r	art-ii and any two						
		The figure			indicata marka							
		The ligure	es in the right	t nanu margin	indicate marks.							
				Part-I								
Q1		Answer the following	questions :	i dit i		(2×10)	l.					
7//	a) ₅₇			nts for bacteria.	257	257						
	b)	Write down the nutritional requirements for bacteria. 257 257 Why for spread plate method is carried out?										
	c)	Write the composition										
	d)	Draw a flow diagram of										
	e)	Give few examples of			utical formulations	S						
	f)	Differentiate disinfecta										
	g)	What is Acid fast bacte				,						
	h)	Write down the differe			t of a new antibiot							
	i) ₅₇	Mention the full form a Name any four Gram			257	257						
	J)	Name any lour Gram	DOSILIVE DACLETT	a.								
				Part-II								
Q2		Focused-Short Answ	er Type Ques	tions- (Answer	Anv Seven)	(5×7)						
		Discuss briefly on th				(,						
	a)	Factors influencing dis	sinfection									
	b)	Bacterial growth curve										
	C) 57	Electron microscopy	257	257	257	257						
	d)	Classification and mod										
	e)	Application of cell culti Sterility indicators	ure in pharmac	eutical industry								
	f) g)	Identification of bacter	ia using IMVIC	tests								
	h)	Gram's staining	ia asing invivio	10010								
	i)	Classification of clean	area according	g to ISO guideline								
	257	257	257	Part-III ₂₅₇	257	257						
Q3		Long Answer Type C Differentiate between			na various feature	s of them. (10)						
પ્ડ		Dillerentiate between	prokaryotes ari	u eukaryotes usii	ig various leature	3 OI IIICIII. (10)						

(10)

(10)

Discuss briefly about the principles and methods of different microbiological assay.

What is cell culture? Explain in details about the general procedure for cell culture.

Q5

Q6

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	R	egi	stration No:											
Т	otal Ņ	Nur	mber of Pages: 02	257			0.57		0.57		257	B.Pharm	0.57	
	2	257	257	2	57		257		257		257	BP304T	257	
	3 rd Semester Regular / Back Examinations: 2021-22													
	PHARMACEUTICAL ENGINEERING													
	BRANCH: B.Pharma													
	Time: 3 Hours Max Marks: 75													
		257	257						257		257		257	
	257 257 257 257 257 257 257 Answer Question No.1 (Part-I) which is compulsory, any seven from Part-II and any two													
	from Part-III.													
	The figures in the right hand margin indicate marks.													
							9							
						Part-	I							
C	21		Answer the following				0					(2×10)		
		3 57	Distinguish between d		01				257		257	_	257	
) ;)	List out the different mechanisms of size reduction? Define equilibrium moisture content and critical moisture content?											
		í)	Define black body and											
)	What are the various					narmac	opoeia ʻ	?	_ 1			
	f	-	State Raoult's law and What are the different					ale effe	ct avan	orator?				
		J) 1)	What is meant by o								can be			
		257	prevented? 257	2	57		257		257	/	257		257	
)	What is overall heat tr	ansfer coefficient? Boltzmann law in heat transfer by radiation?										
	j)	Discuss about Stefan-	Boltzma	nn Iaw	ın neat	transte	r by rad	liation?					
						Part-I	ı							
C	22		Focused-Short Answ	er Type	Quest	tions: ((Answe	r Any S	Seven)			(5×7)		
		1)	What are the reasons						•	nted?				
)	What are filter aids? H								CC O.C.Y.		0.57	
	C) 7	How multiple effect evaporators?	evapo	rators	are i	more e	conom	ic tha	n singi	е епест		257	
	d	1)	What is corrosion? Dis	cuss ab	out the	theorie	es of cor	rosion?	?					
	е	•)	Describe the construct	tion and	working	g of flui	id energ	y mill?						
	f)	Explain the working of	cyclone	separa	ator and	d its use	fulness	?					
		J)	Describe construction		_		_							
		1)	What is Reynold's nur			_								
	Ļ) 57	Describe the principle	and app	lication	s of ste	eam dist	illation	257		257		257	
						Part-II	II							
			Long Answer Type C	uestion	s (Ans									
C	Q3		Write in detail on prin of fluidized bed dryer?	ciple, co	-		-		ges an	ıd disad ^ı	vantages	(10)		
C	24	257	State Fourier's law? E uniform metal wall? Di								hrough a	(10)	257	
				22300 (11	- 2PP1			55110						



