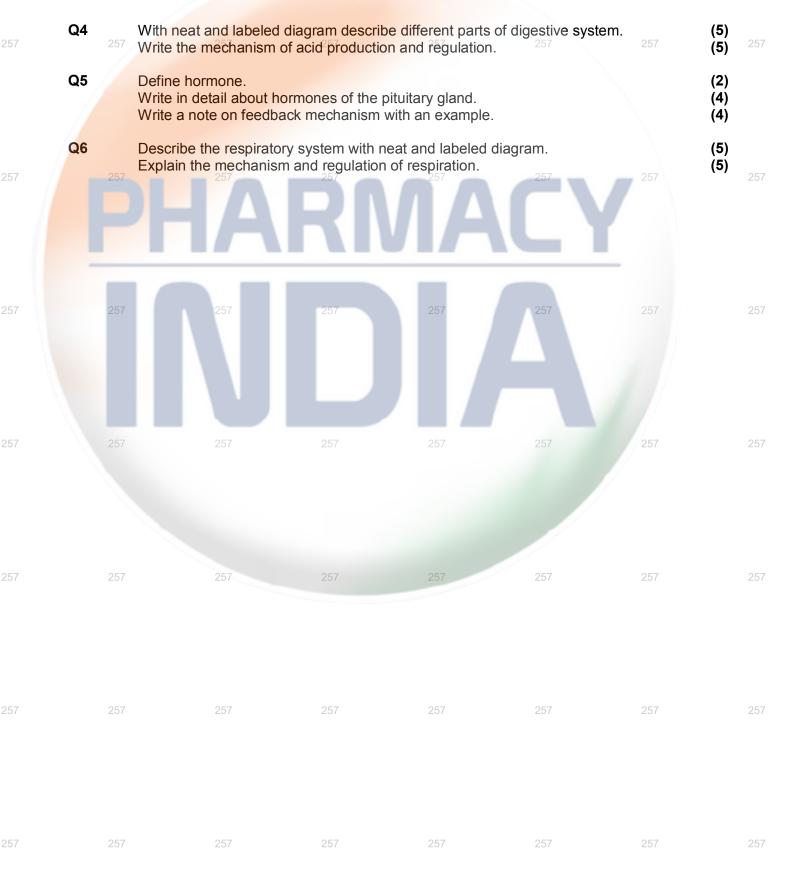
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Ar	iswe	<mark>r Quest</mark> ion No.1 (Pa		is comp rom Pa		ry, aı	ny ei	ght f	rom	Part-	II and	any two	ı
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Q1	257	Answer the following	g questions		-257			257			257	(2 × 10)) 257
	a)	Define synapse.											
	b)	What is Peptic ulcer?											
	c) d)	Define vital capacity?	of gootric init	20									
	e)	Write the composition What is Cushing's syr		Je.									
	f)	Write the disorders du		nd hypo s	secreti	ions c	of arov	wth h	ormor	ne.			
	g)7	Describe the anatomy						257			257		257
	h)	Write the anatomy an											
	i)	Write a note on cereb											
	j)	Write the functions of	pineal gland.										
				Part-	11								
Q2		Focused-Short Answ	ver Type Que	estions-	(Ans	wer A	Any S	Seven	1)			(5 × 7)
	a)	Write the location, stru	ucture and fur	nctions o	f liver.								
	b)	Write a note on diges	tion and abso	rption of	nutrie	nts in	GIT.	257			257		257
	c)	Write a note on menir	nges of brain.										
	d)	Write short notes on F	Renin Angiote	nsin sys	tem.								
	e)	Write a note on proce	ss of urine for	rmation.									
	f)	Write detail note on pa	ancreatic horr	mones.									
	g)	Describe the hormone	es of thyroid g	land and	their	funct	ions.						
	h)	What is Spermatogen	257		257			257			257		257
	i) '	Write note on physiological	ogy of menstr	uation.	201			201			201		201
	Part-III												
	Long Answer Type Questions (Answer Any Two)												
Q3		Define CNS.	Elemente (III.)	h -1 - 1 - 1'								(2)	
		Write different parts o Add a note on structu			_							(4)	
	257	Add a note on structu	re and function 257	illo Ol Ce	257	11.		257			257	(4)	257

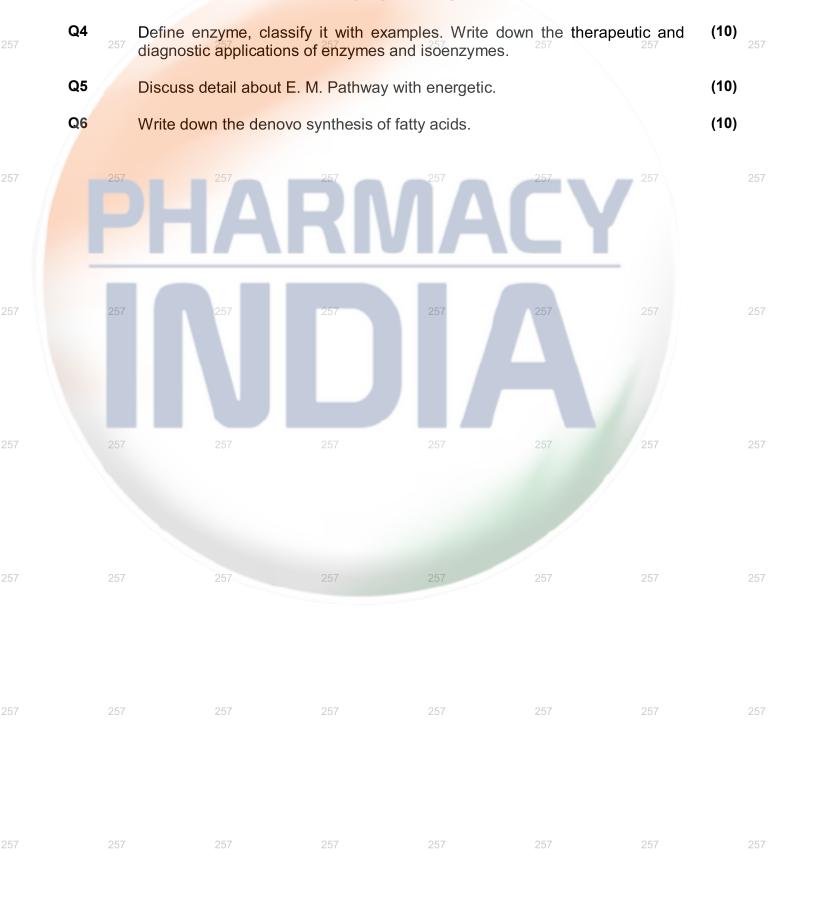


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Registration No: Total Number of Pages: 02 B.Pharm BP202T 2nd Semester Regular / Back Examination: 2021-22 PHARMACEUTICAL ORGANIC CHEMISTRY - I BRANCH(S): B.Pharma Time: 3 Hour Max Marks: 75 **Q.Code: J506** Answer Question No.1 (Part-1) which is compulsory, 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) How will you separate amines by Hinsberg method? a) b) Define electrophile and nucleophile with examples. Write the structure and uses of any one dicarboxylic acid. c) d) Give one qualitative test to differentiate among primary, secondary and tertiary alcohols. Write the IUPAC name for the following structures. e) CH₃ Br CH₂ HO CH₃ CH₂ What is a carbocation? Give one example. Write any one nucleophilic addition reactions of aldehydes followed by loss of water molecule. Write the increasing order of acidity of the following: h) CI CH₂ COOH, CH₃COOH, CI₂ CH COOH, F CH₂ COOH Why is alpha hydrogen acidic in carbonyls? i) More the substituted alkene, faster it is formed. Why? j) Part-II₂₅₇ Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5×7) Explain the basicity of aliphatic amines with special emphasis on effect of substituent on their basicity. What are conjugated dienes? Write a note on stability of conjugated dienes. b) Classify alcohols with examples. Write the oxidation and dehydration reactions of C) Explain the mechanism involved in Aldol condensation reaction with examples. d) Discuss the mechanism involved in halogenation of alkanes with special emphasis e) on chlorination of propane.

257		f) 257 g) h)	Write the structure ethanolamine. Differentiate between Classify alkyl halides halides.	Markovnikov's ar with examples. W	257 nd Anti-Markovr /rite any two me	nikov's addition o ethods of prepara	f alkenes. ation of alkyl	257	7
257	Q3	i) 257	Write the uses of ace paraffins. Long Answer Type Write any three metl	F Questions (Answ	Part-III ver Any Two)	257	257	257 (10)	7
	Q4_		acidity of carboxylic a Differentiate between SN1 and SN2 reaction	ncids with emphas	is on effect of s	ubstituent on the	ir acidity.	(10)	
257	Q5 Q6	257	Define 'isomerism'. examples. Discuss the general tests used to detect of	methods of prepare	aration of carbo			(10) ₂₅₇	7
257		257	257	257	257	257	257	257	7
257		257	257	257	257	257	257	257	7
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	PHARMACY	
057	Time: 3 Hour	257
257	iwax warks : 75	257
WOR		iny two
wei		illy two
	Part-I	
257	Answer the following questions:	(2 x 10)
a)′	Define free energy and give some examples of energy rich compounds.	251
b)	What is ketosis? Write down the normal ketone body level.	
c)	Write down one purine and pyrimidine base with structure.	
d)	Define Transamination and Deamination.	
e)	What is enzyme induction & repression? Give examples.	
-		
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וו	Name the regulatory enzymes of TCA cycle.	
	Part-II	
		(5 × 7)
a)		257
	significance of thire pathway.	257
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i)	What is ATP-ADP cycle? Write down notes on significance of ATP.	
	Part-III	
	Long Answer Type Questions (Answer Any Two)	
	Define carbohydrates. Classify it. Mention the importance of Carbohydrate.	(10)
	257 b) c) d) e) f) j) a) 257 b) c) d) e) f) g) f) g) f)	2nd Semester Regular / Back Examination: 2021-22 BIOCHEMISTRY PHARMACY Time: 3 Hour Max Marks: 75 Q. Code: J585 Siver Question No.1 (Part-1) which is compulsory, any seven from Part-III and a from Part-III. The figures in the right hand margin indicate marks. Part-I Answer the following questions: a) Define free energy and give some examples of energy rich compounds. b) What is ketosis? Write down the normal ketone body level. c) Write down one purine and pyrimidine base with structure. d) Define Transamination and Deamination. e) What is enzyme induction & repression? Give examples. f) What are essential fatty acids? Give examples. g) Define gluconeogenesis. Name the key enzyme of gluconeogenesis. h) Distinguish between DNA and RNA. i) What are the inhibitors of oxidative phosphorylation? j) Name the regulatory enzymes of TCA cycle. Part-II Focused-Short Answer Type Questions- (Answer Any Seven) a) Write down the oxidative phase of HMP pathway and mention the significance of HMP pathway. b) Describe the process of Transcription. c) Discuss the symptom and treatment of Hyperuricemia and Gout. d) Describe the Urea cycle with its disorder. e) Write notes on ETC. f) Describe the reactions of β-oxidation of saturated fatty acid and mention the energy produced from Palmitic acid. g) Write down the synthesis and significance of adrenaline. ²⁵⁷ h) What is enzyme inhibition? Classify it with examples. i) What is ATP-ADP cycle? Write down notes on significance of ATP.



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7	Ans	257 swer	2 nd Semester Regular / Back Examination: 2021-22 PATHOPHYSIOLOGY BRANCH(S): B.Pharma Time: 3 Hour Max Marks: 75 Q.Code: J669 Question No.1 (Part-1) which is compulsory, any seven from Part-II and a from Part-III.	257 I ny two					
7		257	The figures in the right hand margin indicate marks. 257 257 257 257 257	257					
	Q1	a) b)	Part-I Answer the following questions: Write various signs of inflammation. Differentiate between hypertrophy and hyperplasia with examples.	(2 × 10)					
7		c) d) e) f) ⁷	Write the relation between hyperuricemia and gout? Name the causative agent of Syphilis. Write down its symptoms What is the difference between stable angina and unstable angina Write down the difference between hyperplasia and neoplasia. 257	257					
		g) h) i)	What is bipolar disorder? Define and classify seizure. Name the examples of plasma derived mediators of inflammation. Define the term chemotaxis.						
			Part-II						
7	Q2	a) ⁷ b) c) d)	Differentiate between Apoptsis and Necrosis. What is CHF? Write the etiopathogenesis of this disease. Discuss the pathogenesis and symptoms of peptic ulcer. Define pulmonary and non-pulmonary tuberculosis. Briefly discuss its	(5 × 7) ₂₅₇					
7		e) f) g) h)	pathogenesis. Describe the etiology, clinical features and pathogenesis of bronchial asthma. Define and classify tumor. Briefly describe about the etiopathogenesis of cancer. What is anemia? Write down the causes and symptoms of megaloblastic anemia. Write the difference between atherosclerosis and arteriosclerosis. Discuss about	257					
		i)	the etiopathogenesis of atherosclerosis. What is hyperbilirubinemia? Write down the pathogenesis and symptoms of jaundice.						
	Part-III								
7	Q3	257	Long Answer Type Questions (Answer Any Two) Explain various etiology of cell injury and describe pathogenesis of reversible cell injury due to hypoxia and Ischemia.	(10) 257					
	Q4		Discuss about the Cellular events of inflammation and chemical mediators of inflammation. Write a short outline on process of repair.	(10)					
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