	257	stration No : 257 mber of Pages : 02	257	257		257	257	B.Pharm
1016	11 140	iniber of Fages . 02						BP201T
		2 nd Seme	ester Regular / I	Back Ex	aminati	ion: 2021-2	22	
		HUM	MAN ANATOMY			OGY -II		
			BRANCH(•				
	257	257	_	: 3 Hour		257	257	2
				larks: 7 <i>t</i> de: J433				
An	swe	r Question No.1 (Pa	rt-1) which is co			eight from	Part-II and a	any two
		The figur	es in the right h		gin ind	licate mark	(S.	
	257	257	₂₅₇ P	art-l ₂₅₇		257	257	2
Q1		Answer the following	g questions :	201		201	201	(2 × 10)
	a)	Define synapse.						
	b) c)	What is Peptic ulcer? Define vital capacity?						
	d)	Write the composition	of gastric juice					
	e)	What is Cushing's syr						
	f)	Write the disorders du	e to hyper and hyp			rowth hormo	one.	
	g)7	Describe the anatomy				257	257	2
	h) i)	Write the anatomy and Write a note on cereb		edulia obio	ongata.			
	j)	Write the functions of						
				art-II				,
Q2	۵)	Focused-Short Ansv	* -	-	_	/ Seven)		(5 × 7)
	a) b)	Write the location, stru Write a note on digest	0.57	0.57		257	257	2
	c)	Write a note on digest		i oi nume	nis in G	11.		
	d)	Write short notes on F	-	svetem				
	e)	Write a note on proce	•	•				
	f)	Write detail note on pa						
	g)	Describe the hormone			function	S.		
	h)_	What is Spermatogen					0.57	
	í)	Write note on physiological	ogy of menstruation	n. ²⁵⁷		257	257	2
				art-III				
		Long Answer Type C	Questions (Answe	er Any Tv	vo)			
Q3		Define CNS.	f brain with labeles	l digaram				(2) (4)
<u> </u>		Write different parts of		•				(4)
40		Add a note on struction	re and functions of	cerehrun	n			(4)

257	Q4	257	With neat and labeled did Write the mechanism of	agram describe dit acid production an	ferent parts of d	digestive system.	257	(5) (5)	257
	Q5		Define hormone. Write in detail about horr Write a note on feedback	mones of the pituita	ary gland. an example.			(2) (4) (4)	
257	Q6	257	Describe the respiratory Explain the mechanism a			gram. 257	257	(5) (5)	257
257		257	257	257	257	257	257		257
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2nd Semester Regular / Back Examination: 2021-22 PHARMACEUTICAL ORGANIC CHEMISTRY - I

BRANCH(S): B.Pharma

7 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.

Q1 Answer the following questions : Part-I $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$ $_{257}$

- a) How will you separate amines by Hinsberg method?
- **b)** Define electrophile and nucleophile with examples.
- c) Write the structure and uses of any one dicarboxylic acid.
- **d)** Give one qualitative test to differentiate among primary, secondary and tertiary alcohols.
- e) Write the IUPAC name for the following structures.

- **f)**₇ What is a carbocation? Give one example. 257
- g) Write any one nucleophilic addition reactions of aldehydes followed by loss of water molecule.
- h) Write the increasing order of acidity of the following: CI CH₂ COOH, CH₃COOH, Cl₂ CH COOH, F CH₂ COOH
- i) Why is alpha hydrogen acidic in carbonyls?
- j) More the substituted alkene, faster it is formed. Why?

Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5 × 7)

- a) Explain the basicity of aliphatic amines with special emphasis on effect of substituent on their basicity.
- b) What are conjugated dienes? Write a note on stability of conjugated dienes.
- **c)** Classify alcohols with examples. Write the oxidation and dehydration reactions of alcohol.
- Explain the mechanism involved in Aldol condensation reaction with examples.
- e) Discuss the mechanism involved in halogenation of alkanes with special emphasis on chlorination of propane.

257		f) 257 g) h)	ethanolamine. Differentiate betwe Classify alkyl halidehalides.	e of iodoform, chlosoform, chl	nd Anti-Markovn Vrite any two me	ikov's addition of ethods of prepara	alkenes. tion of alkyl		257
257	Q3	257	Write any three m	e Questions (Answerthods of preparation acids with emphase	on of aliphatic of			(10)	257
	Q4		Differentiate betwee SN1 and SN2 reac	een SN1 and SN2 tions.	reactions. Discu	iss the factors a	ffecting the	(10)	
257	Q5	257	Define 'isomerism' examples.	'. Explain₂yarious	types of, structu	ral isomerism wi	th relevant	(10)	257
	Q6			al methods of prep ct carbonyl compour		nyls. Explain the	qualitative	(10)	
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	257	257	Max Marks		257		257	257
۸nd	SWOR	Question No.1 (Part-1) w	Q. Code: J		v savan	from Dar	t_ll and	any two
Alls	SWEI	Question No.1 (Fait-1) W	from Part-		y Seven	IIOIII Fai	t-ii aiiu	arry two
		The figures in	the right hand r		ndicate r	narks.		
		gu	Part-l					
Q1	257	Answer the following qu	estions:	57	257		. 257	(2 x 10) ₂₅₇
	a)	Define free energy and give	-			compound	ds.	251
	b)	What is ketosis? Write do			•			
	c) d)	Write down one purine an Define Transamination an		e with st	ructure.			
	e)	What is enzyme induction		ive exar	nnles			
	f)	What are essential fatty a	-		прісо.			
	g)	Define gluconeogenesis. I	Name the key en	•	gluconed	ogenesis.	257	257
	h)′	Distinguish between DNA			201		201	257
	i) j)	What are the inhibitors of Name the regulatory enzy	• •	•	ገ?			
	3/	Traine the regulatory enzy	•	0.				
Q2		Facused Chart Aresures	Part-II	(4		3		/E × 7\
UZ.	a)	Focused-Short Answer Write down the oxidative	• •	•	•	•		(5 × 7)
	257	significance of HMP pathy		57	257	on the	257	257
	b)	Describe the process of T						
	c)	Discuss the symptom and	•	perurice	mia and (Gout.		
	d)	Describe the Urea cycle w	ith its disorder.					
	e) f)	Write notes on ETC. Describe the reactions of	R_ovidation of sa	aturated	fatty acid	and man	tion the	
	•,	energy produced from Pal		aluraleu	iatty acid	and men		
	g) 7	Write down the synthesis		of adrer	naline. ²⁵⁷		257	257
	h)	What is enzyme inhibition	•	•				
	i)	What is ATP-ADP cycle?	Write down note	s on sigr	nificance	of ATP.		
			Part-III					
		Long Answer Type Quest Define carbohydrates. Cla	•	•	•			(10)
Q 3								

Q4	257 C	Define enzyme, cla iagnostic applicati	assify it with ex ons of enzymes	kamples. Write and isoenzym	down the theres. 257	rapeutic and	(10) 25
Q5	[Discuss detail abou	ıt E. M. Pathway	y with energetion	>.		(10)
Q6	١	Vrite down the der	novo synthesis c	of fatty acids.			(10)
	257	257	257	257	257	257	25
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Registration No: **Total Number of Pages: 02 B.Pharm BP204T** 2nd Semester Regular / Back Examination: 2021-22 **PATHOPHYSIOLOGY** BRANCH(S): B.Pharma Time: 3 Hour Max Marks: 75 **Q.Code: J669** Answer Question No.1 (Part-1) which is compulsory, any seven 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) Write various signs of inflammation. a) Differentiate between hypertrophy and hyperplasia with examples. b) Write the relation between hyperuricemia and gout? c) Name the causative agent of Syphilis. Write down its symptoms d) e) What is the difference between stable angina and unstable angina Write down the difference between hyperplasia and neoplasia. f) What is bipolar disorder? g) Define and classify seizure. h) i) Name the examples of plasma derived mediators of inflammation. i) Define the term chemotaxis. Part-II Q2 (5×7) Focused-Short Answer Type Questions- (Answer Any Seven) a) Differentiate between Apoptsis and Necrosis. b) What is CHF? Write the etiopathogenesis of this disease. Discuss the pathogenesis and symptoms of peptic ulcer. c) d) Define pulmonary and non-pulmonary tuberculosis. Briefly discuss its pathogenesis. Describe the etiology, clinical features and pathogenesis of bronchial asthma. e) f) Define and classify tumor. Briefly describe about the etiopathogenesis of cancer. What is anemia? Write down the causes and symptoms of megaloblastic anemia. g) Write the difference between atherosclerosis and arteriosclerosis. Discuss about h) the etiopathogenesis of atherosclerosis. i) What is hyperbilirubinemia? Write down the pathogenesis and symptoms of jaundice. Part-III Long Answer Type Questions (Answer Any Two) Explain various etiology of cell injury and describe pathogenesis of reversible cell (10)Q3 injury due to hypoxia and Ischemia. Q4 Discuss about the Cellular events of inflammation and chemical mediators of (10)inflammation. Write a short outline on process of repair.

257	Q5	257	Define Rheumatoid symptoms of Rheuma	arthritis. Discus	ss the etiology,	pathogenesis,	sign and	(10) 257
	Q6		Define and classify D complications of diabe	iabetes mellitus. etes mellitus.	Describe the pat	hogenesis, syr	nptoms and	(10)
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