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57			257	HUMAN	ANATO	DMY AN BRANC Tim Max Q.C	CH:B.P e:3 Ho Marks: ODE:F	SIOLO harma urs : 75 599	GY II	- THE	ORY	257	257
	Ans	wer	Question No.	The figu	•	•	•		-	-		y I WO fron	1 Part-C.
57			257	257		257	Part- A	257		257		257	257
	Q1	a) b) c) d) e)	Objective Ans Write about Bro How does Fee What do you u Differentiate be What do you m	oncho-pul dback sys nderstand etween Sp nean by A	monary s stem Wor l by Tidal permatog cid-Base	segment k in ende Volume enesis a	swer All) . ocrine system ? and Oogel	stem?					(2 x 10)
57		f) g) h) i) j)	What is Neurol Write about Ce Write about Sa Write the pube Differentiate be	erebro-spir ilivary Gla rtal chang	nal Fluid. nds. Jes in fem	nales? nd Neuro	oglia.	257		257		257	257
57	Q2	a) b) c) d) e)	Focused-Short Explain Renin regulation. Describe Mens Describe the ty Discuss about Explain Bio-en	-Angioten strual Cycl pes of Pit the transpergetics. V	e and the cuitary Ho port and e Write a ne	uestions sterone e role of ormones exchange ote abou	Axis Sy Ovary. and men e of Gase at ATP an	stem tion ab es in re d its fu	and i out H spirate	ts role yper-pitu ory syste	itarism.	257	(5 x 7) 257
57		f) g) h) i)	Describe the function Discuss about Write a note at Write a note or	Artificial Foout Spina	Respirational cord. D	on and C escribe	ardio-pul its parts v	monar with a r	y resu	scitation		257	257
							Part-C						
	Q3		Long Answer Draw and Description of the Mouth.						efly di	scuss ab	out the	digestion of	(10)
57	Q4		Describe the pand their functi		entral ne	ryous sy	stem. Dis	scuss :	about	the parts	s of cer	ebral cortex	(10) ₂₅₇
	Q5		Describe the Uprocess of uring			h a nea	t and lab	eled d	iagran	n. Briefly	/ discus	s about the	(10)
	Q6		Describe the physiology of r				neat an	ıd labe	eled d	iagram.	Discuss	s about the	(10)
57			257	257		257		257		257		257	257

Registration No: **B.Pharm Total Number of Pages: 01 BP202T** ²⁵2nd Semester Regular / Back Examination 2018-19 PHARMACEUTICAL ORGANIC CHEMISTRY I **BRANCH: B.Pharm** Time: 3 Hours Max Marks: 75 **Q.CODE:** F196 Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from Part-C_{.57} The figures in the right hand margin indicate marks. Part- A Q1 Objective Answer Type Questions (Answer All) (2×10) a) What is Tollens reagent? b) What is Rectified & Methylated Sprit? c) What is lodoform Reaction? Write the equation involved in Carbylamines reactions? d) What is the difference Between Gem-Vic Dihalide? e) f) What is Rosendmund Reduction? Why chloro acetic acid is more acidic than acetic acid? g) Write the structure & Use of Hexamine? h) i) What is saytzeff rule with suitable examples? What is Hinesburg test to distinguise between Primary, Secondary and Tertiary j) Aliphatic Amines? Part-B Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5×7) Discuss Sp3 hybridizations with suitable examples. a) Explain Cannizzaro reaction reaction. b) How you differentiate 1°,2° & 3° Alcohol. c) d) Explain Diel-Alder Reaction with suitable example. . e) Discuss the mechanism of E1 Reaction with suitable example. **f)**7 Explain Markovnikove rule with suitable Example. Write the free-radical substitution reaction of methane. g) h) Write the structure and use of following compounds: Acetyl salicylic acid, Paraldehyde, Propylene glycol, Vanilin & Citric acid. i) Explain Aldol condensation Reaction. Part-C Long Answer Type Questions (Answer Any Two) Outline the general methods of preparations and Chemical reactions of aldehyde. **(10)** ₂₅₇ Q3 Q4 Discuss SN1 and SN2 reactions. Explain Factors affecting SN1 and SN2 reactions. (10)Q5 Write a note on Structural Isomerism in organic with suitable example. Discuss the (10)common IUPAC system of nomenclature of Alcohol & Carboxylic Acid. Q6 Describe the Five general methods of preparations and Chemical reactions of alkenes. (10)

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7	Q1	a) b) c) d) e) f) g) h) i)	What is inverts What is hartnu What is carnitin Differentiate be What is high en What is hypert Mention the co Write the comp	swer Type Que Sugar? Name to p disease? ne? Write down etween DNA and nergy rich comp polirubinemia? Me penzymes require conents of ETC e central dogma ity and mention	its role in the d RNA. cound? Give twention its caused for conversional indicate the of molecular of	entification of body. vo example ses. sion of pyrune sites of p genetics.	s. vic acid to phosphoryla	257 Acetyl CoA	257	(2 x 10) 257
7	Q2	a) b) c) d) e) f) g) h)	What is Ketosic Describe the P Describe oxida What is HMP S Write down the Explain how A Write notes on Write down the	e synthesis of m TP is synthesize Transcription.	e Questions- togenesis. esis. acid with ener the oxidative elatonin and ned in the body.	getic. phase and nention its s Mention th	importance significance e significal	e of HMP Shunt. e. nce of ATP.	257	(5 x 7) ²⁵⁷
	Q3			Type Question al blood urea k	ns (Answer Ai		ions of ure	ea cycle and m	ention its	(10)
7	Q4		Define enzym inhibition.	e ²⁵ Classify wi	th suitable e	xamples.	Describe 1	the competitive	enzyme	(10) 257
	Q5 Q6			e synthesis of Posiss. Describe th			way with er	nergetic.		(10) (10)
7			257	257	257	257		257	257	257

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	Answ	er (Question No.1 (Part	-A) an	•			mpuls	ory a	and a	ny TWO from	Part-C.
			The fig	gures	in the right h	nand marg	gin in	ndicat	e mai	rks.		
						art- A						
257	Q1	۵)	Objective Answer Ty Define apoptosis with			ver All) ₂₅₇			257		257	(2 x 10)
		a) b)	Differentiate between		•	S.						
		c)	What is triple respons	e durin	g acute inflamı	mation?						
		d) e)	Differentiate between Write the chararacteri		•	stable angi	na.					
		f)	State various symptor		•							
		g)	Define Asthma and w				. المحددة	0				
257		h) i)	Which serum markers Write the causes of M			ignosis of ja	aunaid	ce?	257		257	257
		j)	Define STD and write			of gonorrhe	a?					
					F	Part- B						
	Q2	- \	Focused-Short Ansv			(Answer	Any S	Seven)			(5 x 7)
		a) b)	Explain the pathogene Differentiate between			erplasia wit	h suit	able e	xampl	les.		
257		c)	Define Congestive He	art Fail	ure. Discuss p	athogenes	is, sig	n and	symp	toms	of the disease.	257
		d)	Describe about variou	s medi	ators of inflam	mation.						
		e)	Discuss the pathophy	siology	and symptom	s of peptic	ulcer.					
		f)	Explain the pathogene	esis and	d symptoms of	Acute rena	al failu	ure.				
		g)	Define Myocardial infa	arction.	Describe the p	oathogenes	is an	d diagr	nosis (of the	disease.	
257		h)	What is Rheumatoid A	Arthritis	? Explain the p	oathogenes	is of t	the dis	ease.		257	257
		i)	Define AIDS. Discuss	the pa	thogenesis, sig	gn and sym	ptom	s of the	e dise	ase.		
					_							
						Part-C						
			Long Answer Type C		•							
257	Q3		Discuss about variou injury due to hypoxia.	s caus	es of⊴cell inju	ry and ₂des	cribe	patho	genes	sis of	reversible cell	(10) _{≥57}
	Q4		Define Hypertension.	Classif	y it. Discuss th	e pathoger	nesis a	and sy	mptor	ns of	hypertension.	(10)
	Q5		Classify Diabetes m complications of diabeter			e pathophy	ysiolo	gy, di	agnos	sis, s	symptoms and	(10)
257	Q6		Define Tuberculosis. symptoms and diagno		•	be the ²⁵⁷ mo	ode (of trar	nsmiss	sion,	pathogenesis,	(10) ²⁵⁷

257	257 Registratio	257	257	257	257	257	257
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257 Accord	ing to PCI Syllabus	257	257	257	257	257	B.Pharm
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257	²⁵ Answe	r aný two f	rom the Part-A	A and any s	ix from the Pa	art-B ²⁵⁷	257
257	257 Th	ne figures ir	n the right hand	d margin in	dicate marks	257	257
Part-A		231	231	231	231	231	231
²⁵⁷ Q.1.	What is computer translator.	· language? Wr	rite different types	of computer l	anguage with type	es of languag	e (10)
257	257	257	257 erent characteristic	257	257	257	257
Q.2.	What is Database	r Describe dilli	erent characteristic	25 01 11			(10)
257 Q.3.	257 What is Bio-Inform	257 natics? Write (257 down its objective a	257 and application	257 n in detail		257 (10)
257	257	257	257	257	257		257
Part-B	257						
Q.4.	Difference between	en Software ar	nd Programme.				(05)
Q.5.	What is HTML? W	rite its feature	s and few tags with	n syntax.			(05)
₂₅₇ Q.6.	What is web serve	er? Describe th	eir types.	257	257	257	(05)
²⁵⁷ Q.7.	Perform Binary su	btraction by u	sing complement n	$nethod^{7}of$ (10	11011) ₂ -7(110110	1) ₂ . ²⁵⁷	(05)
257	257	257	257	257	257	257	257
Q.8.			per (14F8.C) ₁₆ to De			20,	(05)
257	257	257	257	257	257	257	257
₂₅₇ Q.9.	What is Drug info	rmation, retriev	val system? Discuss	s with example	2. 257	257	(0 <u>5</u>)
257	257	257	257	257	257	257	257
Q.10.	Write short note	on pharmac	y drug data base.	and the fi	an (1	I	(05)
257	257	257	257	257	257	257	257
Q.11. 257	Describe different	types of langu	uage translator.	257	257	257	(05) 257
257	257	257	257	257	257	257	257

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257 Total N	umber of Pages: 01	257	257	257	257	257	257
₂₅₇ Accord	ing to PCI Syllabus	257	257	257	257	257	B.Pharm
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257 Part-A	257	Tigures ir	n the right han	a margin ind	alcate marks.	257	257
²⁵⁷ Q.1.	Define & classify e examples.	cosystem,	write in detail abo	out forest as a	n ecosystem wi	th suitable	(10)
²⁵⁷ Q.2.	Classify various air	pollutants	and how to cont	rol air pollutio	n. 257	257	(10)
Q.3.	What are the vario	-	_	•		cribe about	(10)
	various water trea	tment prod	cedures with suita	able examples.			
Part-B							
Q.4.	Pond as an ecosyst						(05)
	,						(/
257	257	257					257
Q.5.	Energy flow and fo	0.77					(05)
₂₅₇ Q.6.	BOD & COD.	257	257	257	257	257	(05)
²⁵⁷ Q.7.	Greenhouse effect	and Acid r	ain. 257	257	257	257	(05)
257	257	257	257	257	257	257	257
Q.8.	Nitrogen Cycle.	200 1	23 /	200 1	201	257	(05)
257	257	257	257	257	257	257	257
257 Q.9 .	Anaerobic Digestic	on. ₂₅₇	257	257	257	257	(05)
²⁵⁷ Q.10.	Various soil Polluta	ants and co	ntrol measures.	257	257	257	(05)
257	257	257	257	257	257	257	257
	Renewable and No	on-renewak ²⁵⁷	ole resources.	257	257	257	(05) 257
257	257	257	257	257	257	257	257

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57		257	2 257	BRANC Max	ck Examinatio . ANALYSIS – CH : B.Pharma Marks : 100 e : 3 Hours	257	257	257
	Ansv	wer Quest	tion No.1 (Part-	Q.Co 1) which is com	ODE : F886 pulsory, any E	EIGHT from Par	t-II and any TW	O from
7		257	The fig	ures in t <u>he</u> ₁right	Part-III. : hand m <u>a</u> rgin	indicate ₂ marks	257	257
	Q1 a)) Define th	ne term titration a		•			(2 x 10)
57	b) c) d) e) f) j)	Different Define p What are Different Unit Different Unit Different Unit Different Unit Different Unit Different	e the number of s liate systematic al H and calculate the adsorption indic liate iodimetry and aper is a type of it a Argentometric ti	ndicator. Justify w	0.0055 Kg errors. . 257 kamples. ith proper explar	257 nation.	257	257
	1)	Deline IV	redox titration. On		Part- II			
57	Q2 b) c) d) e)	Handers Explain t Classify Ideal pro Metal ior What is i	on-Hasselbalch e the neutralization the solvents used operties of a prima n indicators and the masking and dem	swer Type Questing and its ap curve of 0.1N HCl in non-aqueous nary standard. Give neir ideal propertie asking in complex	plication when titrated agnethod of titration examples under s	gainst 0.1N NaOH n. each category of	titration.	(6 x 8) ₂₅₇
7	g) h) i) j) k)	Preparat Write a r Describe Different	note on Oxidation the preparation tiate accuracy and	ization of 0,1N KM	n of 0.1N Sod. Nitable explanation		257	257
					Part-III			
7	Q3	Describe		Questions (Answ s of indicators. W itration?			while selecting a	(16) ₂₅₇
	Q4	concept		ed titrant in comple h. Classify comple d.				(16)
-7	Q5		the principle beh Sodium chloride.					(16)
57	Q6	Describe example	• • •	of Redox titration	. Add a note o	n Redox indicato	ors with suitable	(16)

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			i ne tigu	res in the righ	it nand mar	gin ind	licate mark	S.	
					Part- I				
	Q1	a)	Only Short Answer Typ Write about role of mouth		nswer All-10	0)			(2 x 10)
57		b)	Differentiate between Fe	rtilization and G	ametogenesi	S.	257	257	257
		c) d)	Write a note about Rena What are Hormones and						
		e)	What are neurotransmitte	ers?					
		f) g)	What is negative feedback Write about Puberty in m						
		h)	What are the types of Dia	abetes Mellitus?					
57		i) j)	Write about Electroencer Differentiate between ex				257	257	257
					Part- II				
	Q2	a) b)	Only Focused-Short Ar Explain Cranial Nerves a Describe rennin-angioter	nd their function	is.	swer A	ny Eight out	of Twelve)	(6 x 8)
		c)	Write about various gast	rointestinal secre	etions and the	eir role i	n digestion.		
57		d)	Describe the respiratory	volumes and ca	pacities. 257		257	257	257
		e)	What are Sense organs?	Describe about	t Human ear	with a di	iagram.		
		f)	Write a note about Thyro	id gland and its	secretions.				
		g)	Write a note on Pregnan	cy and its mainte	enance.				
		h)	Write a note on Pubertal	changes in fema	ales and mer	ition abo	out menstrua	tion.	
57		i)	Write a note on the parts	of the brain and	l its function,		257	257	257
01		j)	Write a note on transfer of	of gases in respi	ration, briefly	mentio			201
		k)	Write a note on Spinal co	ord and briefly m	ention about	reflex a	ction.		
		I)	Write a note on Insulin, it	s secretion, fund	ction and role	in meta	abolism.		
57			257 257	257	257		257	257	257

257		257	257	257	257	257	257	257
257		Only Long Ans	swer Type Ques	Part-III tions (Answer A	l any Two out of F	our)	257	257
257	Q3	Draw and Des	237	ratory System w	237	labeled Diagram	257 i. Briefly (16	257 6)
	Q4	Draw and Desc		System with a r	neat and labeled	diagram. Describ	pe about (16	;)
257	Q5	Describe human	n Endocrine Syst	em. Discuss abo	ut hormones of P	Pituitary Gland.	(16	5) 257
201	Q6				nic nervous syste		(16	
257		257	257	257	257	257	257	257
257		257	257	257	257	257	257	257
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7			257 2nd Semester Back Examination 2018-197 PHARMACOGNOSY- I BRANCH: B.Pharma Max Marks: 100 Time: 3 Hours Q.CODE: F355	257	257
	Ans	wer	Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II ar Part-III.	nd any TW	O from
7			The figures in the right hand margin indicate marks.	257	257
			Part- I		
	Q1	a) b) c)	Only Short Answer Type Questions (Answer All-10) Define crude drugs with examples. What are the various source of natural drugs? What are the factors affecting cultivation of medicinal plants?		(2 x 10)
7		d) e) f) g) h) i)	Give examples of natural pest control agents. Resin is an unorganised drug. (True or False) Write the therapeutic use of honey. Write the biological source & use of Shark liver oil. Define balsam. Give two examples of tannin drugs. Asafoetida is an Oleo-gum resin. (True or False)	257	257
7	Q2		Part- II Only Focused-Short Answer Type Questions- (Answer Any Eight out of Tw	alv ²⁵⁷	(6 x 8) ⁵⁷
	~-	a) b) c) d) e) f)	What are leaf constants? Explain in brief. Give a note on "Lycopodium Spore method". Define & classify tannins. Write a sort note on Polyploidy. Write the applications of Plant growth regulators & Plant growth inhibitors. Write the source, phytoconstituent & use of turmeric.	oo,	(0 x 0)
7		g) h) i) j) k) l)	Differentiate between Black Catechu & Pale catechu. Write method of Gold beater's skin Test. Write a short notes on resins. Write the biological source, phytoconstituent & use of Tragacanth. Write a note on hybridization. Write in details about morphological evaluation of crude drugs.	257	257
			Part-III		
7	Q3		Only Long Answer Type Questions (Answer Any Two out of Four) 2Write in detail about the classification of crude drugs.	257	(16) ²⁵⁷
	Q4		Give an account of secondary metabolites of plant origin with their properties.		(16)
	Q5		Write the detail pharmacognosy of Acacia.		(16)
7	Q6		What are the different types of adulteration & what are the techniques used adulterants, Discuss in details about biological classification.	to detect	(16)
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04		Ob and A	T	O 4'		Part- I	0)						(O == 46)	
Q1	3)	Short Ansv Everyone sh	• •		•		•	tho	contor	ago bi	iac froc		(2 x 10)	
	0.0	What is the	257		257		257		-	0.57		257		2
	c)	What do you	•						iidiiid	20011				
	•	What is a st		-			-715							
	e)	Give an expresently co		f vertica	ıl commu	nication	in ar	n org	anisa	tion v	where y	ou are		
	f)	What is the		•	-	ion in a	selection	on pro	ocess	?				
	21	How many t	257	-	257		257		2	257		257		2
	-	What do you Explain ethr	-	•	entence?									
	i) j)	What is an		-	ry?									
						Part- II								
Q2		Focused-S				•		Any	Eight	out	of Twelv	e)	(6 x 8)	
		What are th	207	_	207		207		2	257		257		2
	p)	What is tear		_		_		مامد		.b.o.ut	the edu	minninn		
	c)	Draft an er procedure for	•					abio	Jau a	ibout	trie aur	HISSIOH		
	d)	Distinguish						Gene	eral co	ommı	unication			
	e)	Prepare a casting vote	short spe										:	
	f) 25	Develop a p	25/	_	7557		75/	-		no la	aw."	257		2
	•	Differentiate					•							
		As the Prin meet.												
	i) i\	What are organisation	า?			-					-			
	j)	As a Huma not qualify in			ager, write	a ielle	ו נט טוו	i c UI	u i e Ca	anulu	ai c s Will	Jould		
	k) ²⁵	Write a sho			güessing	game'.	257		2	257		257		2

257		257	257	257	257	257	257	257
				Part-l	II			
	Q3	Prepare a C\	/ of your own for cal companies as	the post of Pro	y Two out of For oduction In-chargo isement published	e in one of the re		
257		257	257	257	257	257	257	257
	Q4		rma-professional iours across cult		deal with the diff ith examples.	erences betweer	n non- (16)	
	Q5		pes of interview the need of prep		hat do you unde the interview.	rstand by an inte	erview (16)	
257	Q6	²⁵ Why do you different stag		formation is red	quired in an orga	anisation? Illustra	aterits (16)	257
257		257	257	257	257	257	257	257
257		257	257	257	257	257	257	257
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	F	Regis	stration No :		201	201		201	201	201
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7		21	57 257			NCH : B.Pha		257	257	257
		2	31 231			ax Marks३⁵1(ime : 3 Hour		231	231	231
						.CODE : F47				
	Aı	nswe	er Question No.1	(Part-1)		compulsor from Part-III.		EIGHT from I	Part-II and an	y TWO
			The	figures i	in the rig	th hand ma	rgin in	ndicate marks	·.	
7		2	57 257		257	Part- I ₂₅₇		257	257	257
	Q1	a)	Only Short Answ Write the objectiv			s (Answer All	-10)			(2 x 10)
		b)	Name the various			ds of contrace	ptives.			
		c)	Mention the source			L 5 4				
		d) e)	Write about the ty Name four OTC p		ises of ad	nesive tapes.				
		f)	Write the tempera	ature range		l and cold stor	age co	ndition.		
7		g) 29 h)	示What is satellite∵p What is a Univers			257		257	257	257
		i)	Name two perma			nily planning.				
		j)	What are IUCDs?	?						
						Part- II				
	Q2	- \	Only Focused-S							(6 x 8)
7		a) b) 2	Suggest a metho				and ter	male with their o	ପ e talis. 257	257
		c)	Write about Infect							
		d)	Analyze the role	of commur	nity pharm	nacist in health	care a	and patient educ	cation.	
		e)	Explain the methor		• •			•		
		f)	Enlighten the eme	ergency tre	eatment o	f poisoning.				
7		g) ₂	₅₇ Mention the simila	arity and d	lifference l	between Surg	ical gau	uze and bandag	jes. ₂₅₇	257
		h)	Write in brief abo	ut hospital	formulary	/.				
		i)	Write about the o	rganizatior	n and stru	cture retail dru	ug store	Э.		
		j)	Design the label	of a produc	ct illustrati	ing all its featu	ires.			
		k)	Define budget an	d describe	its featur	es.				
		l) ₂₁	Describe the drug	g distributio	on to Outp	oatients.		0.57	0.57	0.57
,		2	57 257		257	257		257	257	257
						Part-III				
	Q3		Only Long Answ Describe the met			•	-	•		(16)
	Q4		Discuss the vario	us steps ir	nvolved in	purchasing a	nd inve	ntory control		(16)
7	Q5	2	Describe the obje	ectives, fun	octions, co	omposition and	d roles	of PTC.	257	(16) ²⁵⁷
	Q6		Define sterilization					I for sterilizatio	n with suitable	(16)

Registr	ation No :		
Total N	Total Number of Pages : 01		
257	2 nd Semester Back Examination 2018-19 PHARM ANALYSIS - I BRANCH : B.Pharma Time : 3 Hours Max Marks : 70 Q.CODE : F601 Answer Question No.1 which is compulsory and any five from the res	PH.2.5	257
257	The figures in the right hand margin indicate marks.		257
Q1 a) b) c) d) e)	Answer the following questions: Differentiate primary and secondary standard with suitable examples. What do you mean by titration error? Define common ion effect. Mention its significance. Name any two indicators used in Fajan's method of titration. What is color change interval?	(2 x 10)	
257 f) g) h) i)	Calculate the pH of 0.01N HNO ₃ 257 257 What is gravimetric factor? Mention its application. Why nitrobenzene is used in Volhard's method of titration? Differentiate complex and chelate with suitable example. Write the advantages of non-aqueous method of titration.		257
Q2 a) b)	Classify errors with illustrations. How are the errors minimized in pharmaceutical analysis? 257 257 257 257 257 257	(5) (5)	257
Q3 a) b)		(5) (5)	201
Q4 a) b)	Write the principle of Mohr's method of titration. Write a note on similarities and difference between Mohr's method and Volhard's method of titration.	(5) (5)	
Q5 ₂₅₇ a) b)	Classify the solvents used in non-aqueous method of titration with examples. $_{257}$ Give a note on assay of adrenaline by non-aqueous method of titration.	(5) (5)	257
Q6	What do you mean by complexometric titration? Classify them. Add a note on estimation of calcium by complexometric titration.	(10)	
Q7	Give a note on principle and procedure involved in gravimetric method of analysis.	(10)	
Q8 ²⁵⁷ a) b) c) d)	Write short answer on any TWO: Law of mass action Solubility product and its application in analysis Pyrolysis curve Preparation and standardization of 0.1N TBAH	(5 x 2)	257
257	257 257 257 257 257 257 257 257 257 257		257

Registration No: **Total Number of Pages: 01 B.Pharm** PH.2.7 2nd Semester Back Examination 2018-19 PHARMACOGNOSY - II **BRANCH: B.Pharma** Time: 3 Hours Max Marks: 70 **Q.CODE:** F354 Answer Question No.1 which is compulsory and any FIVE from the rest. The figures in the right hand margin indicate marks. Q1 Answer the following questions: (2×10) Define resin with examples. **b)** What is balsam? c) What are photosensitizing agents? d) Give some examples of antioxidants from plant origin. e) Classify fibres with examples. Define Pharmaceutical aids. f) Natural colours are obtained from animal origin. (True or False) g) What is the use of Talc? h) i) How volatile oil differs from fixed oil? What is Supercritical fluid extraction? j) Q2 a) What are the general method of extraction of volatile oil from plant (5) Write the biological source, constituents & use of Mentha. (5)Q3 Write the source, constituents & use of gelatin. (5) Write the source, constituents & use of Kaolin. (5)Write a note on silk fibre. (5)What are the use of plant fibres? (5) Q5 Classify tannins with examples. (5)Write the pharmacognosy of Black Catechu7 25(5) Q6 Write the detail pharmacognosy of Saffron. (10)**Q7** Write the source, phytoconstituents, chemical test & use of Clove. (10)Q8 Write short notes on any TWO: (5×2) Write a short note on Natural allergens. **b)** Discuss in brief about natural antioxidants 257 c) Write a short note on Pharmaceutical aids.