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257	257			257			1	257			257		25	57		2
Total Nu	mber of P	ages:	2											B.P	HARM	į
														Р	H. 6.1	
6 th Semester Regular / Back Examination 2016-17 PHARMACEUTICS-V (Pharmaceutical Technology- II) BRANCH: Pharmacy Time: 3 Hours Max Marks: 70 Q.CODE: Z118 Answer Question No.1 which is compulsory and any five from rest. The Figures In the right hand margin indicate marks.																
1. Ans	wer the f	ollow	ing (ques	tions	S							(2×10))		
a)	Give a flo	ow dia	agra	m fo	r ma	nufa	cture	e of p	oaren	iteral	proc	ducts.				
b)	Give two		_							ter ir	nsolu 257	ble po	lyme	rs use	d	2!
c)	What is c	lean 1	roon	100	and	1 10,0	000?									
d)	What are	e diffe	erent	part	s of	aeros	sol p	acka	ge?							
e)	What are preparati								aque	eous	vehi	cle fo	r pai		al	
f)	Different	iate b	etwe	en E	Bliste	er pa	ckag	ing a	and s	trip p		aging.	2.			۷,
g)	Ophthaln secretion											_with	lac	hryma	al	
h)	Write an separatio	•	-		_	ise s	-	ation	occ	curs	in c	oacerv		phas	e	2
i)	Mention application							or m	icroe	encap	sula	tion as	nd w	rite th	e	

Name the types of glass used for parenteral preparation.

2.	par	cuss in detail about vehicles and adjuvant used in formulatenteral.	ion of (10)
3.		ine microencapsulation. Discuss the air suspension method us aration of microencapsulation with neat labeled diagram	sed for (10)
4.	a) used	Classify the propellants with suitable examples and write the manufacturing aerosols.	nethods (5)
25	⁵⁷ b)	Write notes on evaluation of aerosols? 257	(5)
5.		at is pharmaceutical packaging? Briefly discuss the factors influice of containers. Elaborate on stability aspects of packaging.	encing (10)
6.	a) mic	Write notes on core material and coating material use roencapsulation.	ed for (5)
25	b)	Define aseptic condition. Discuss briefly designing of an aseptic ar	ea.
			(5)
7.	Des	cribe briefly on the following	
	a)	Contact lenses.	(5)
25	b)	Requirements of Ophthalmic products.	(5)
8.	a)	Briefly explain manufacturing of parenteral preparation.	(5)
	b)	Define pyrogen. Give it significant. Write notes on pyrogen test.	(5)

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Total Number of Pages: 02

B.Pharm PH.6.3

6th Semester Regular / Back Examination 2016-17 PHARMACEUTICAL CHEMISTRY-VI

(MEDICINAL CHEMISTRY-II)

BRANCH: Pharmacy Time: 3 Hours Max Marks: 70 Q.CODE: Z169

Answer Question No.1 which is compulsory and any five from the rest.

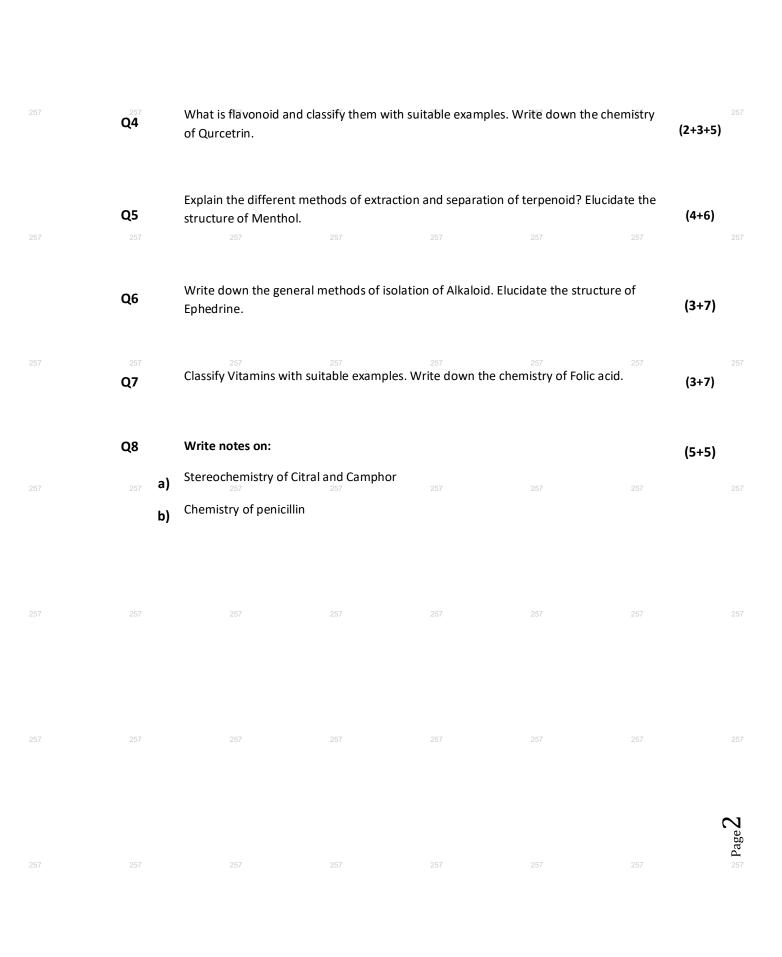
The figures in the right hand margin indicate marks.

Q1		Answer the following questions:	(2×10)
	a)	Give the name and structure of any one mercurial diuretics.	
	b)	Differentiate between neuroleptics and analeptics.	
	c)	What do you mean by hypnotics and sedatives .Give suitable examples from each.	
	d)	Define steroids and give any two examples of steroidal agents.	
257	e)	Give the name and structure of pregn-4-ene-3,20 dione.	
	f)	Give the name and structure of any one non-steroidal female sex hormone.	
	g)	How opioids differ from non-opioids.	
	h)	Write synthesis and uses of chlorothiazide.	
	i)	Write synthesis and uses of clofibrate.	
	j)	Write synthesis and uses of Phenelzine	
Q2 57	a)	Give the synthesis and uses of testosterone from cholesterol.257	(5)
	b)	Write short notes on progestational agents.	(5)
Q3	a)	Write structural activity relationship of local anesthetics. (Both ester and amide type).	(5)
257	b)	Write synthesis and uses of benzocaine and phenobarbitone.	(5)
Q4		What are CNS stimulants, classify them with suitable example .Write their structural activity relationship , synthesis and mode of action of any one C.N.S. stimulating agent.	(10)
Q5	a)	.Write synthesis,mode of action and uses of acetazolamide and procainamide.	(5)
257	b)	Give the structure, nomenclature and synthesis of amantidine, amphetamine. 257	(5)

	Q6	a)	Give the synthesis and uses of primidone and chlorpromazine.										
7	257	b)	Give the synthesis and dinitrate. ²⁵⁷	Give the synthesis and mode of action of carbamazepine and Isosorbide dinitrate. ²⁵⁷									
	Q 7	a)	Classify antidepressants	and write the syr	nthesis and uses o	f diazepam.	((5)					
		b)	.Classify anxiolytics and	d give synthesis a	nd therapeutic use	es of impiramine.	((5)					
7	Q8 257	a) b) c) d)	Write (any two) synthed Furosemide and ethosus Prazocin and Nifedipine Pethidine and Haloperid Dibucaine and Clonidin	ximide. ; lol	tic uses of follo	wing drugs ²⁵⁷	(5	x 2)					
7	257		257	257	257	257	257	2					
7	257		257	257	257	257	257	2					
7	257		257	257	257	257	257	2					
7	257		257	257	257	257	257	2					
7	257		257	257	257	257	257	2	2				

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257		257 257 257 257 257	57 25
Tota	l N	umber of Pages:02	B.PHARM PH.6.5
		6 th Semester Regular / Back Examination 2016-17 PHYTOCHEMISTRY BRANCH: Pharmacy	
257		257 Time: 3 Hours	57 25
		Max Marks: 70	
		Q.CODE: Z234	
		Answer Question No.1 which is compulsory and any five from the rest.	
		The figures in the right hand margin indicate marks.	
Q 1 257	a)	Answer the following questions: How do you know the presence of Carbonyl group in Carvone?	(2 x 10) ²⁵
	b)	Give the therapeutic activity of Streptomycin?	
	c) d)	Write some examples of adsorbents use in TLC? What are the important application TLC in phytochemistry. Write two chemical tests for identification of flavonoids.	ns of
257	e)	Write the significance of reaction of Morphine with FeCl ₃ .	57 25
	f)	What is special isoprene rule? Explain with examples.	
	g)	Write the hydrolytic products of Atropine and which one is optically active.	
	h)	Write down the source and deficiency disease caused by Vitamin- C	
	i)	Write the role of Herzig-Meyer reaction in determination of structure of alkaloids.	
257	j)	Write down the mechanism of action of cardiac glycoside on heart muscle.	57 25
Q2		Differentiate between Cardenolides and Bufadenolides? Write the chemistry of Digoxin and Ouabain.	(2+4+4)
Q 3	a)	What are the different physical methods useful for the separation and isolation of phytoconstituents from the crude drugs?	57 25 (5)
	h)	How Spectroscopy techniques are helpful for structural elucidation of a new organi	C

compound.



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Total Nu	umber of Pages: 02 257 257 257 257	B.Pharm PH.6.7	257							
	6 th Semester Regular / Back Examination 2016-17 PHARMACOGNOSY - IV BRANCH: PHARMACY									
Time: 3 Hours 257										
Ansv	wer Question No.1 which is compulsory and any five from The figures in the right hand margin indicate marks.	the rest.								
Q1 ₂₅₇ a)	Answer the following questions:		257							
,	Differentiate true and pseudo alkaloids, give example under each	1								
b)	group.									
Ψ,	Write the principle involved in Gradient pH technique.									
²⁵⁷ c)	Explain about Leha.	57	257							
d)	Define Bhasmas. How these dosage forms prepared?									
e)	Write the chemical constituents and uses of Lahsun.	57	257							
f)	Name the botanical source, chemicalconstituents and uses of									
	'Punarnava'									
g)	Mention four alkaloids containing indole nucleus.									

h) Write the method of Vitali-Morin Test.

j) Write the source of Diosgenin. How it is useful.

Write the main chemical constituents and uses of Gudmar.

Q2		Write the biological source, cultivation, collection, macroscopical characters, chemical constituents, chemical tests and uses of Belladonna.	(10)
Q3	a)	What is Ergot? Describe its lifecycle.	(5)
	b)	Mention the constituents and uses of Ergot.	(5)
Q4		Write in detail about general methods of extraction and isolation of	(10)
257		alkaloids from plants source. 257 257 257	
Q5		Write botanical source, chemical constituents present and their uses of the following plants :	(2.5X4)
257		(a) Tobacco (b) Rauwolfia (c) Coffee (d) Cinchona	
Q6		Write the vernacular name, biological source, chemical	(2.5X4)
257		constituents and uses of: (a) Shilajit (b) Brahmi (c) Satavari (d) Tulsi 257 257	
Q7		Write the holistic concept of Ayurveda. Write on the preparation of Asvas and Aristas in detail.	(5) (5)
Q8 ₂₅₇	a)	Write the method of production and utilization of the following phytoconstituents: Diosgenin	(5)
	b)	Tropane Alkaloids	(5)

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Total Number of Pages: 02

B.Pharm PH.6.9

6th Semester Regular / Back Examination 2016-17 PHARMACOLOGY- II

BRANCH: Pharmacy Time: 3 Hours Max marks: 70

Answer Question No.1 which is compulsory and any five from the rest.

The figures in the right hand margin indicate marks.

Q.CODE: Z410

Q1 Answer the following questions:

 (2×10)

- **a)** Define Bioassay .Write of the difference of between Quantal nd Graded Bioassay.
 - **b)** Classify calcium channel blockers. Give any two examples of second generation beta blockers with their use.
 - **c)** Sidenafil is avoided in persons taking organic nitrates.True or False.Justify
 - **d)** Write shortly about mechanism of actions of Streptokinase and Urokinase.
 - **e)** Write the principal pharmacological effects of Quinidine, Disopyramide and Procainamide.
 - f) Define Status Asthmaticus. Write examples of any two antiinflammatory agents that acts as mast cell stabilizers and prevent histamine release.
 - g) Define Prinzmetal's Angina. Why calcium channel blockers are used as an additionaltherapeutic agent along with isosorbide dinitrate for Prinzmetal's Angina.
 - h) Give any two examples of diuretics acting on site- IV(collecting duct.Write their therapeutic uses.
 - i) Give any two examples of respiratory stimulants. Write their possible Adverse effects.
 - j) Define micro re-entry. Write any two possible causes of re-entrant arrhythmia.

Q2	a)	Define cardiotonic drugs.Write the detail mechanism of action of Digitalis with suitable Diagram.	(5)	
257	b)	Write the mechanism of action ,ADR and therapeutic uses of ACE inhibitors. 257 257 257 257	(5)	
Q3	a)	Classify anti-anginal drugs and other anti-ischemic drugs. Write the difference between Classical angina and variant angina.	(5)	
	b)	Write the Pharmacological actions, ADR and therapeutic use of Calcium Channel Blockers (CCBs).	(5)	
257 Q4	a)	Classify drugs affecting 5-HT system.Write any two ADR and uses of	(5)	
		Dihydroergotamine and ergometrine.		
	b)	Write details about biosynthesis of Prostaglandins (PG) and Leukotrine(LT)	(5)	
Q5 ⁷	a)	Define and classify Diuretics.Write the complications of high celling and Thiazide type Diuretic therapy.	(5)	
	b)	Write details about mechanism of actions,ADR and therapeutic uses of carbonic anhydrase inhibitors.	(5)	
Q6	a)	Define mucokinetics. Write the specific approaches for treatment of	(5)	
257		cough. 257 257 257 257 257		
	b)	Classify drugs used for treatment of Bronchial Asthma. Write mechanism of actions, ADR and therapeutic uses of theophylline.	(5)	
Q7	a)	Define Maching and bracketing Bioassay. Write the procedures of insulin Bioassay.	(5)	
	b)	1 ,	(5)	
257 Q8	a) b) c) d)	Write short answer on any TWO: Vitamin-K plasma volume expanders. Fibrinolytics Anti diuretic hormone.	(5 x 2)	

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²⁵⁷	6 th Semester Regular / Back Examination 2016-17 PHARMACEUTICAL JURISPRUDENCE AND ETHICS BRANCH: Pharmacy Time: 3 Hours Max Marks: 70 Q.CODE: Z522 Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks.											
Q1 a) b)	Answer the fo Define spurious Gudakhu is a co When the D.P.C	drugs a	s per D.C	Act no, Ju	•	ata d						(2 x 10)
257 c) d) e) f) g) h) i)	Distinguish a Ph What do you me Distinguish betw What do you me Name 4 names Define Sch.G an Define the term I	armacy an by L veen Pa an by M of Psyc b SC.H	and chen unatic. Itent and i IAPE. Ihochotrop drugs.	nist & nventi pic sub	Drugis	st sho	p.	25 ⁻			257 257	2
Q2	Write the constitu	ution ar	nd function	of Ph	narma	су Со	uncil	of Inc	dia			(10)
Q3	What are the qua	alificatio	ons and po	owers	of a C	rug Ir	nspec	ctor as	s per	D.C Act	t.	(10)
Q4 a) b)	Write a brief no Poison Act Calculation of re		²⁵⁷ e as per D	PCO.	257			25	7		257	(5) (5)
Q5	Discuss the diffe and the rules un			ne Me	dical ⁻	Γermi	natior	n of P	regna	ancy Ac	t	(10)
Q6 ₇	What are Narcot penalties for Co	-						ef. W	nat ar	e the	257	(10)
Q7	Write a brief note	on co	de of Pha	mace	utical	Ethics	S.					(10)
Q8	Write short an	swer c	n:									

b) Experimentation on animals (as per prevention of Cruelty to animals Act.)

(5)

(5)

a) Patent Ac