Reg	istra	ation no:								
<b>Tota</b>	Total Number of Pages: 2  257 257 257 257 257 257 257 257 257 PH 6.1									
		6 <sup>th</sup> Semester Regular / Back Examination 2015-16								
PHARMACEUTICS-V (PHARMACEUTICAL TECHNOLOGY- II)  Branch: BPharm Time: 3 Hours										
		Max marks: 70 Q.Code: W102								
Ans	swe	r Question No.1 which is compulsory and any five from	the rest.							
257		The figures in the right hand margin indicate marks.	257							
Q1	a)	Answer the following questions What is the role of actuator in aerosol?	(2 x 10)							
257	b)	Water for injection (WFI) is sterile and pyrogen free. True or false, Justify.	257							
	c) d)	What is clean room class 100?  Bacteriostatic water for injection cannot be used in the preparation of	f							
257	e) f) g) h) i)	LVP. True or false, Justify.  Water attack test is used only with type I glass. True or false. Justify.  Ophthalmic formulations need not be sterile. True or false, justify.  Name the evaluation tests for microcapsules.  Write about flash point test for aerosols.								
	j)	dispersions. True or false, Justify. What is cold sterilization?								
<b>Q2</b> 257	a) b)	Briefly discuss stability aspects of packaging Discuss critically about aqueous vehicles used in formulation of parenterals.	(5) (5) (5)							
Q3	a) b)	Write in detail about propellants used in formulation of aerosols.  Discuss in about the formulation of pharmaceutical aerosol solution	(5) (5)							

systems.

Q4, Define co-acervation phase separation technique. Discuss in detail 257 (10) about any two methods of coacervation phase separation with phase diagram and suitable examples of drug and polymer. Q5 Discuss in detail about microencapsulation by air suspension (5) technique. Write in detail about evaluation test for parenterals. (5) Q6 Draw the flow chart for flow of materials in the production department (10)of parenterals. Discuss in detail about facilities required for manufacturing of parenteral dosage forms. Q7 Write briefly on the following  $(5\times2)$ Contact lenses a) Routes of administration of parenterals 257 b) Q8 Describe briefly on the following  $(2.5 \times 4)$ Treated Soda lime glass a) b) Drug plastic considerations Dosage with metered valve C) Tamper resistant packaging

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257		257			25	7			257			257		257	
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			6	s <sup>th</sup> Se	mest	er Re	gular	/ Bad	k Exa	mina	tion 2	2015-	16		
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0.57		0.53				-	MEDI	CINA	L CHE	MISTI	RY-II)	0.57		0.57	
257		257			25				narma	icy		257		257	
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		Answ						-		-	-		om the r	est.	
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Q1		Answer th			_		c	,•	C 1						(2 x 10)
	a)	Outline th											1'		
	b)	Outline th nucleus.	ie syn	tnesis	oī ar	i anti	nyper	tensiv	e aru	g nav	ing q	uinaz	olinamine	e	
	c)	Give the s	structu	ire, no	omen	clatu	re and	l uses	of an	nantac	line.				
257	d)	Discuss2s1	teroid	al ant	i-infl	amma	atory	agent	s with	suita	ble e	kamp]	les.	257	
	e)	Outline th	ie syn	thesis	and	uses (	of die	thyl s	tilbes	terol.					
	f)	Outline th	ne syn	thesis	and	uses (	of thic	openta	al sod	ium.					
	g)	Discuss th	ne stru	ıctura	l feat	ures a	and us	ses of	morp	hine.					
	h)	Discuss th	ne role	e of d	opam	ine a	nd ac	etylch	oline	in pa	rkinso	on's d	isease.		
	i)	Name the	differ	ent ty	pes o	of CN	S stir	nulan	ts wit	h suit	able	examp	oles.		
257	j)	What is h				ve the	struc	eture (	fan a	antihy	perte	nsive	agent wi	th 1°,4-	
Q2	a)	Discuss ir anaestheti						ıd strı	ıcture	activ	ity re	lation	ship of lo	ocal	(5+5)

Discus the classification of hypnotics and sedatives on the basis of their chemical

Outline the synthesis of benzocaine and lignocaine

Describe the synthesis and uses of diazepam and glutethimide.

structures with suitable examples.

Q3

Раде 🛘

(5+5)

<b>Q4</b> 257	a)	Discuss the classification diuretics on the basis of their chemical nucleus with suitable examples and briefly describe the structure activity relationship of thiazide diuretics.  257  257  257  257  257	(5+5)
	b)	Outline the synthesis and uses of acetazolamide and chlorthiazide.	
<b>Q5</b> 257		What are the different types of psychopharmacological agents? Briefly classify them with suitable examples and outline the uses of chlorpromazine and imipramine.	(1+2+7)
Q6		What are anticonvulsants? Classify them with suitable examples. Outline the synthesis of primidone and carbamazepine.	(1+2+7)
<b>Q7</b>	a) b)	Discuss the nomenclature and stereochemistry of steroids with suitable examples.  Outline the synthesis, mechanism of action and uses of testosterone.	(5+5)
<b>Q8</b> <sub>257</sub>	a) b) c) d)	Outline the synthesis and uses of the followings.  Levodopa Procainamide Nikethamide Pethidine	(2.5 X 4)
257		257 257 257 257 257 257 257 257 257 257	

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Total	Num	ber of Pages:01	<b>B.PHARM</b>	
			PH.6.5	
257		6 <sup>th</sup> Semester Regular / Back Examination 2015-16  PHYTOCHEMISTRY  Branch: Pharmacy	;	
		Time: 3 Hours		
		Max Marks: 70 Q.CODE: W318		
257		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:	(2 x 10)	
	a)	What is super critical fluid and how it is helpful in the extraction?		
	b)	What is Zesel's method? Mention its use.		
	c)	What is TLC? Name some visualising agent used in TLC.		
257	d)	Write down the name and chemical structure of aglycone part of Ouabain.	:	
	e)	Write two chemical tests for identification of alkaloids.		
	f)	What happens when penicillin is subjected to acid hydrolysis?		
	g)	Explain isoprene rule.		
	h)	Differentiate between Cardenolides and Bufadenolides with examples.		
	i)	Write down the source and deficiency disease caused by Folic acid.		
	j)	What is Zerewitnoff's method? Mention its use.		
257		257     257     257     257     257	:	
Q2	a)	Write the general methods of extraction of phyto constituents from the crude drug.	(5+5)	
	b)	Write the application of IR and Mass spectroscopy in structural elucidation.		
Q3		Explain the pharmacological action of cardiac glycosides? Write the chemistry of Digitoxin and Scillaren A	(2+4+4)	
Q4		Write the classification and chemical identification tests of flavonoids. Discuss the		
257		chemistry of Qurcetrin. 257 257 257 257	(2+3+5)	
Q5		What are terpenoids? Classify them and elucidate the structure of Citral.	(1+3+6)	
Q6 Q7	a) b)	Define Alkaloids. Elucidate the structure of Ephedrine Write notes on: Stereochemistry of menthol Chemistry of Vitamin C	(2+8) (5+5)	
Q8	~,	What are antibiotics? Explain the reaction involved in the structural elucidation of 257 Streptomycin.	(2+8)	

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## Total number of printed pages- 2

B.Pharm PH.6.7

## 6<sup>th</sup> Semester Regular / Back Examination 2015-16 PHARMACOGNOSY – IV

Branch: Pharmacy
Full Marks 270
Time: 3 Hours
Q.CODE: W405

Answer Question No.1 which is compulsory and any five from the rest. The figures in the right hand margin indicate marks

2571.	An	nswer the following questions:	257	257	<sup>257</sup> (2 x 10)
	a)	Write the biological source of Epl	hedra.		
	b)	What do you mean by Arista?			
	c)	Write the biological source of Arj	una.		
	d)	Name two market products of Tai	ilas.		
257	e)	Write the Chemical constituents a	and uses of Bael.	257	257
	f)	Write the biological source of Bel	lladona.		
	g)	Write the chemical constituents o	f Punarnava.		
	h)	What is Stas-Otto process?			
	i)	Write the source and utilization o	f Podophylotoxin.		
257	j)	Write the chemical constituents o	f Lobelia <sup>257</sup>	257	257
2.	Wı	rite the general methods of extracti	on and isolation of	alkaloids.	(5+5)
3.	Wı	rite the detail pharmacognosy of Ci	inchona.		(10)
4.	Wı	rite a note on production and utilaz	ation of Quinine a	nd Diosgenin.	(5+5)
5.	Wı	rite the method of preparation of A	yurvedic dosage fo	orms:	(5+5)
257	a)	<b>Asava</b> 257 257	257	257	257

257 <b>a</b> )	Tulsi	257	257	257	257 (5+5)
<b>b</b> )	) Amla				
	rite the Biological	source, Chemical	constituents, Cho	emical test and U	ses of: (5+5)
257	Tea Rauwolfia	257	257	257	257
	rite notes on:				(5+5)
a)	Drugs of Steroidal	alkaloids			
<b>b</b> )	Guggul 257	257	257	257	257
257	257	257	257	257	257
257	257	257	257	257	257
257	257	257	257	257	257

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257 <b>A</b>	6 <sup>th</sup> Semester Regular / Back Examination 2015-16 PHARMACOLOGY - II BRANCH: Pharmacy Time: 3 Hours Max Marks: 70										
<b>Q1</b>	a) b) c) d) e) f) g) h) i)	The figures in the right hand margin indicate marks.  Answer the following questions: Write any four therapeutic uses of vit-B-12 Define classical angina enumerate any two anti-angina drugs. Write two major side effects of Quinidine. Define central sympatholytics with examples. Define re-entrant arrhythmia & write their causes. Give any two examples of bronchodilators & write their MOA. Define centrally acting antitussives give two examples. Why Beta blockers not recommended in bronchial asthma. Write any four therapeutic uses of Spironolactone Write the mechanism of action of Methylxanthine	(2 x 10)								
<b>Q2</b> <sup>7</sup>	a) b)	Classify drugs used in treatment of Hypertension with examples.  Write the mechanism, side effects and uses of Telmisatran.	(5) (5)								
Q3	a) b)	Define COPD.Classify drugs used for Bronchial Asthma Write the Mechanism,Side effects and uses of mast cell stabilizers	(5) (5)								
<b>Q4</b>		Define bioassay.Write the different types of bioassay with suitable examples.Write the principles and procedure for bioassay of Insulin. 257	(10)								
Q5	a)	Classify anti-arrhythmic Drugs. Write the Mechanism of action of Amiodarone.	(5)								
Q6	b) a) b)	Write the Adverse effects and uses of Amiodarone. Write shortly about synthesis, storage and release of 5-HT Write the detail pharmacology of Ergotamine.	(5) (5) (5)								
<b>Q</b> 7	a) b)	Define and classify diuretics.  Write the mechanism, side effects and therapeutic uses of Furosemide.	(5) (5)								

Q8

Write short notes on any two:

a) Calcium Channel Blockers

c) Potassium sparring Diuretics

**b)** Vitamin k

**d)** Prostaglandins

(5 x 2)

Reg	istra	ation no:												
257 257 257 257 257 257 257											B.Pharm PH.6.11			
			gures in				-		_		-			
<b>Q1</b>	a)	Answer the fo				Act, 1	948,,						257	(2 x 10)
	b)	Define schedu	ule "G" an	d sche	edule	"M".								
	c)	Where Centra	al Drug Re	searcl	ı Insti	itute i	s loca	ted.						
	d)	What is the ro	_											
	e)	Define the ter	rm "Bulk I	Drug".										
257	f)	Mention the y	year of con	stituti	on fo	r Pate	nt Ac	t and	Facto	ory A	ct.		257	2
	g)	What is Loan								•				
	h)	Write the fun	ctions of C	overr	nment	t Anal	yst.							
	i)	Differentiate	bonded an	d non	-bond	led lal	borate	ries?						
	j)	What is Scheo	dule C & 0	C1?										
257 <b>Q2</b>		Write the cor to Pharmacy			nctio	ns of	Phari	nacy	Cour	ncil o	f Indi	a accor	ding	(5+5)
Q3		Discuss in de	tails about	Code	of Pl	narma	ceutio	al Etl	hics v	with s	pecial	referer	nce	(5+5)
		to Pharmacist	t in relation	ı to hi	s Job	and I	Pharm	acist	in rel	ation	to his	Trade.		
257		257		257			257						257	

Describe the qualification, duties and procedures of Drug Inspector as per

(10)

Q4

Drugs and Cosmetics Act.

Q5	a)	Write the constitution and functions of DTAB									
257	b)	What are the prohibited advertisement mentioned under the Drugs and Magic	(5)								
		Remedies (Objectionable Advertisements) Act 1954?									
Q6		Describe the various aspects and provisions for Termination of Pregnancies according to Medical Termination of Pregnancy Act, 1975.	(10)								
257		257 257 257 257 257									
Q7	a)	Describe the operation controlled by Central govt. and State govt. under									
		Narcotic Psychotropic Substances Act and Rules, 1985.									
	b)	Describe the important points on experimentation on animals.	(5)								
<b>Q8</b> <sub>257</sub>	a)	Write notes on any <b>two:</b> 257 257 257 Drug Cosultative Committee	(5 x 2)								
	b)	Write the formula for calculation of Retail price of drug formulation.									
	c)	Poisons Act, 1919									
	d)	Conditions for obtaining the licence of bonded laboratory.									
257		257 257 257 257 257									