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Total Number of Pages: 02 257 257 257 257													
	6 <sup>th</sup> Semester Regular Examination 2017-18 PHARMACEUTICS – III (PHARM. TECH II) BRANCH: B.Pharma Time: 3 Hours Max Marks: 100 257 Q.CODE: C132 Answer Part-A which is compulsory and any four from Part-B.												
257			201	201		<b>£</b>		F	257		257		
		art-A which igures in				_							
	11101	iguioo iii	tilo rigili	nana m	argiii i		uto 11		, .				
			– A (Answ				-						
Q1.	Answer the foll				•		•			(2 x 10)			
a)					s of			0	r greater				
<sup>257</sup> <b>b)</b>	with an efficience Pyrogen is				t ic no	rform	257 od to	مامی	cted the		257		
D)	proper animals					1101111	eu io	3616	cied ine				
c)			-		•	antioxi	idant	in op	hthalmic				
,	products.			_				•					
d)	Ophthalmic prod								•				
e)	The basic comp												
<b>f)</b> 257	The solution sys	stem of aeı 	rosol is cal	led as		and v	vater 257	base	d system		257		
g)	The active ingreas polysaccharide	The meth	nod of cha	oice for t	he pre								
h)	Mention two wa	ter soluble	resins use	d in micro	encap	sulatio	on.						
i)	SVP is												
j)	Type I glass i	s called a	as					is c					
257	257		257	257			257		257		257		
Q2.	Answer the following	lowina au	estions: S	hort ans	ver tvr	ле <i>'</i>				(2 x 10)			
a)	Name four route	•								(= X 10)			
b)	Name the thera		•			halmid	prep	aratio	ons.				
c)	Give the differer	-	• •	•	•								
d)	Name four non	aqueous ve	ehicles for	parentera	ıl produ	ıcts.							
<sup>257</sup> <b>e)</b>	Name any four	pharmaceu	itics applica	ations of ı	microer	ncaps	ulatio	n.	257		257		
f)	What is propella	ant? Give tw	vo example	es of com	presse	d gas	prop	ellant					
g)	What is tamper packaging.	proof pack	kaging? Na	ame any t	two tes	ts cor	nduct	ed foi	primary				
h)	What is the role												
i)	Water attack tes			oe I glass	. True	or fals	e just	tify?					
<b>j)</b> 257	What is clean ro	om class 1	1 <b>00?</b> 257	257			257		257		257		
201	201		LU1	207			201		201		201		

		<u> Part – B (</u>	Answer any fou	r questions)				
Q3.	a) b)	Discuss details about vehicle Define details about LAL test	•	used in pare	nterals.		(10) (5)	
Q4.	<sup>257</sup> a)	What is primary packaging?	Briefly explain t	he selection	criteria for prima	ary	(10)	25
	b)	packaging.  Name various quality contr packaging.	ol tests conduct	ed for pharn	naceutical prima	ary	(5)	
Q5.	<b>a)</b>	Define microencapsulation. If for microencapsulation. Mer microencapsulation.		• •	•		(10)	25
	b)	Narrate briefly about the Coa	cervation-phase	separation ted	chnology.		(5)	
Q6.	a)	What do you mean by asep details, the design and faciliti			ge form? Write,	in	(10)	
	b)	Mention about different types	of LVP.				(5)	
Q7.	ea) b)	Discuss the manufacturing of Describe about contact lense	•	ments.	257	257	(10) (5)	25
Q8.	a)	What are the roles of prope details, about formulation of o			tem? Describe,	in	(10)	
	b)	Describe the valves used in a	-	ae105015.			(5)	
Q9.	≥5a) b)	Give a note on packaging con Describe the evaluation proce		-	enteral product	<b>S</b> . <sup>257</sup>	(10) (5)	25
2	257	257 257	257		257	257		25
2	257	257 257	257		257	257		25

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257	Ansv	ver Sect The		4' wł	MEC E nich	Ma Q.0 is co	AL C ICH : ne : x Ma CODI mpu	HEN B.P Horks: E:C Isory	IISTF harm urs 100 196 / and	{Υ - II na ⊢any	l Foui	r fror		15PH	602	257
								ON-A								
Q1	- \	Answer			_									(2 x 10	0)	
	a)	Mechani a) Unco b) Reve	oating	inhib	itor			IS:		dsorp rotea:						
257	<b>b</b> )	Anaesth a) Infiltr b) Nerv	ation e blo	anae ck ana	sthes aesth	sia esia			c) F d) T	opica	l ana	esthe	thesia sia	257		257
	c)	Which of a) Pher b) Pent	nobarl obarb	bital ital		-			c) T	ting bi hiope exabi	ntal	rate:				
257	d)	Glibencla a) Sulpi b) Benz	honyl zoic a	uraes	s <sup>257</sup>		class	Of: 257	,	hiazo iguan		dione	s	257		257
	e)	Xylocain a) Ethyl b) 2-(Di c) 2-(Di d) 4-Ch	l-p-an iethyla iethyla	amino amino	ethy )-N-(	/I-P-a 2,6-di				cetam	ide					
257	f)	Antidote a) Gluc b) Pher	agon		sulin	toxicit	ty is :	257	-	ilycog epagl		7		257		257
	g)	The major via : a) Kidno b) Lung	еу	ite of	elimii	nation	of th	e vola	c) S d) L	kin	al ana	esthe	tics is			
257	h)	The stag about an a) Stag b) Stag	nd hav e-I						c) S	e patie tage- tage-	25	ay mo	ove	257		25
	i)	Which of a) select b) kill co	ne of ctive t	oxicit v zerc	y to c o-orde	ancei er kine	r cells etics	i	TRUE	_		oplast	ic:			
257		d) easil	y dev	elop ı	esist	ance		257			25	7		257		257

257	257	j)	Why does only fem  a) because femal b) because femal c) males find it did d) blood is the on	e is evolutionar e need blood fr ficult to suck b	rily designed to be om vertebral hos lood	e cruel	257	257
231	Q.2	a)	d) blood is the on  Answer the follow  Name the different  Differentiate between	ving Questions types of CNS	<b>s :</b> Stimulants with si	uitable examples.	(2 x 10)	231
257	257	b) c) d) e) f) g) h) i)	Differentiate betwee examples. Discuss the role of Write the structure Give the name and Differentiate betwee Define Biochemica Write synthesis an Write synthesis an Give the mechanis	Amantidine in and chemical is structure of 5, en Barbiturate. I theory of Gerd uses of Thiord uses of Meth	parkinsonism dis name of Thiotepa 5-Diethyl barbitur s and Benzodiaze neral anaesthetics pental sodium. adone.	sease ric acid. epines	257	257
				SEC.	ΓΙΟΝ-Β			
257	<sub>257</sub> <b>Q3</b>	a)	Classify oral hypoguses and mode of	llycemic agents action of Chlor	s with₅examples.0 propamide.	-	<sub>257</sub> <b>(10)</b>	257
		b)	Write short notes of	n Insulin and I	nsulin preparatior	ns.	(5)	
	Q4	a)	Define and Classif Stereochemistry of		th examples. Disc	uss the SAR and	(10)	
		b)	Write synthesis, m		ction and uses of	Chloramphenicol.	(5)	
257	<sub>257</sub> <b>Q5</b>	a)	Classify the Antima				<sub>257</sub> (10)	257
		b)	synthesis, chemica Write the synthetic Chloroquine.				(5)	
	Q6	a)	What are the differ agents with examp				(10)	
		b)	Write Pharmaceuti				(5)	
257	<sup>257</sup> <b>Q7</b>	a)	Classify anticonvul		mples. Outline the	e synthetic route	<sup>257</sup> (10)	257
		b)	Write note on imm	•	e agents.		(5)	
	Q8	a)	Define and classify Cyclobarbital and I		l hypnotics. Write	the synthesis of	(10)	
		b)	Classify anxiolytics		nesis and therape	eutic uses of	(5)	
257	257		Haloperidol.	257	257	257	257	257
	Q9	a)	Outline the synthes i. Procainamid ii. Chlorambuc iii. Levodopa iv. Dibucaine	e il	of following drugs		(10)	
		(b)	Write note on Antit	hyroid drugs.			(5)	
257	257		257	257	257	257	257	257

	257	mber of Pages 257		BR	RMA ANC Time	ACOI H : B · : 3 I	xami _OG` .Pha Hours s : 10	/ - II rma s		017≃	18	257	B.Phari 15PH60
	257	Answer Pa The	rt-A which figures i	ch is co	mpı	ılsor		d any				<b>3.</b> 257	
Q.1		Choose the co	rroot anov	vor :	F	art-	A						(2 v 10
Q.I	a)	Which of the fol  i. Saralasi  ii. Diltiazen  iii. Captopri	lowing is a n า		nhibit	tor?							(2 x 10
	257 <b>b)</b>	iv. Spirinola The mechanism i. Increase	ctone of action in heart ra	ate with	incre	ase ir					n	257	
	c)	iii. Decreas	in heart ra e in heart e in heart on poitentia	rate with rate with	n incre n deci	ease rease	in oxy in ox	gen ygen	consi	umptic	on		
	257	ii. closing o	of Na+ cha of Na+ cha of Ca+2 cl of calcium	nne <b>ls</b> ≀ hannels			257			25	7	257	
	d)	Verapamil acts i. Bloking ı ii. Calcium		depola lokers		on							
			membrane		isatic	n							
		iv. Blokers All drugs are us i. Salbutar ii. Sodium iii. Corticos iv. Organop	membrane ed in Asthi nol cromoglyc teroids bhosphates	repolar ma exce ate		on	257			25	7	257	
	e) <sup>7</sup> f)	iv. Blokers All drugs are us i. Salbutar ii. Sodium iii. Corticos iv. Organop Loop diuretics a i. Inhibitior ii. Inhibitior	membrane ed in Asthi nol cromoglyc teroids bhosphates	e repolar ma exce ate s l- sympo +-2Cl- c	ept ort otran					25		257	

	h) <sup>2,57</sup> i)	Which of the following action i. Vasocontriction ii. Gastric acid secretior iii. Increase Permeability iv. Bronchoconstriction Mechanism of action of theoli. Mast cell stabilization ii. Phosphodiesterase ir iii. Leukotriene antagoni iv. $\beta_2$ sympathomimetic Name the drug use for treatments.	phylline hhibition	257	257	257		
	257	i. Nitroglycerine . ii. Ramipril iii. Verapamil iv. Propranolol	257	257	257	257		
Q.2	a) b) c) d) e) f) g) h)	Write the mechanism of ac Quinidine Nifedipine Nitroglycerine Atorvastatin 257 Hydrochlorothiazide Salbutamol Cetrizine Spironolactone Diclofenac Ramipril	tion of following	<b>J drugs :</b> 257	257	257	(2 x 10)	
	257	257	257 Part-B	257	257	257		
Q.3	a) b)	What is Angina pectoris? Cla Write the pharmacological ad Digitalis.	assify the antiangi	-	erapeutic uses o	f	(5) (10)	
Q.4	a) b)	Define and classify Hyperten Classify antihypertensive. W		ology of ACE inhib	oitors.	257	(5) (4+6)	
Q.5	a)	Define and classify diuretics Loop diuretics.	with suitable exa	mples. Write the	Pharmacology of		(5+5)	
	b)	Write briefly on Antidiuretics					(5)	
Q.6	<b>a)</b> <b>b)</b>	Classify the drugs used in br Write short notes on: i. Respiratory stimulant ii. Expectorant	257	Write short notes	on Bronchodilato	<b>r.</b> 257	(5) (5 x 2)	
Q.7	a) b)	Discuss in details about the s Write different types of histar of H <sub>1</sub> antagonists.	•			logy	(5) (10)	

	Q.8	a)	Define and classif warfarin.				d side effects of	(5+	
		b)	Write brief notes of	n fibrinolytic	cs and haematin	ics.		(5)	
257	Q.9	257 a) b) c) d)	Write notes on A Prostaglandin Angiotensin 5-HT antagonist NSAIDs	ny THREE	257	257	257	257 <b>(5 x</b>	<b>3)</b> 257
257		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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257 257	PHA BRA N W C Answer Section 'A' which is o The figures in the ri	RMACANCH Fime : lax Macanch Q.COE complight h		our from S cate marks.	ection 'B'.	251 251
			on 'A'			
Q1.	Answer the correct option of t	he foll	owings :		(2 x 10)	
a)	Family of Tea is					
	i) Theaceae	ii)				
0.57	iii) Leguminosae		Zygophyllaceae	0.57	0.57	
<sup>257</sup> <b>b)</b>	gives stimulant & diuretion			257	257	257
	i) Theobromine	,	Caffeine			
	iii) Coumarin		Xanthene			
c)	Shankhapushpi is used as					
	i) Sedative	,	Narcotic			
	iii) Purgative		Diuretic			
d)	Family of Gymnema is					
	i) Acanthaceae	ii)	Asclepiadaceae			
257	iii) Asteraceae 257	iv)	Araliaceae	257	257	257
e)	Guggul is anresin.					
	i) Oleo-gum	ii)	Acid			
	iii) Oleo	iv)	Alcohol			
f)	lpecac is alkaloid.	•				
•	i) Indole	ii)	Isoquinoline			
	iii) Tropane	iv)				
g)	is the Family of B	ael. <sup>^</sup>				
257	i) Rutaceae 257		Rubiaceae	257	257	25
	iii) Liliaceae	iv)	Solanaceae			
h)	Amla is the rich source of	,				
,	i) Vitamin A	ii)	Vitamin C			
	iii) Vitamin D		Vitamin K			
i)	Synonyms of Catharanthus is	,				
-,	i) Sarpagandha	ii)				
	iii) Henbane	,	Monkshood			
257 <b>j</b> )	Ma-Huang is the common name	,		257	257	
237 ])	i) Veratrum		Ephedra	231	231	201
	iii) Kurchi		Colchicum			
	iii, Karoiii	17)	Coloriiodili			
Q2.	Answer the following question	s:			(2 x 10)	
a)	Enumerate the Biological source		uwolfia?		(2 × 10)	
b)	Specify the important Chemical of			irulina		
c)	Mention the name of two market					

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Write the therapeutic uses of Satavari. What are the Chemical constituents of Lobelia? Mention the pharmaceutical utilization of Quinine. Write the Biological source of Kurchi. What are the Chemical constituents of Gokhru? h) i) Name two marketed products of Taila. Describe the applications of TLC. j) Section 'B' Describe the detail Pharmacognosy of Belladona. (10)Give the details of biological source, Chemical constituents and uses of (5) Colchicum. (10)Explain the general methods of extraction and isolation of Alkaloids. b) Write in details about the Biological source, Chemical constituents and Uses (5) of Nux-vomica. Q5. a) Write a note on the Production and Utilization of Podophylotoxin and (10)Diosgenin. **b)** Explain the source and utilization of Tropane alkaloid. (5) (10)Q6. a) Describe the detail and systematic Pharmacognostic study of Cinchona. Mention the Biological source, Chemical constituents and Uses of Arjuna. (5) Discuss in details on Alkaloids with its classification and suitable examples. (10)Q7. a) Describe the method of preparation of Bhasma. (5) (10)Q8. a) Give an account of Biological source, Chemical constituents and Uses of Tulsi and Punamava. b) Emphasize the applications of HPLC in evaluation of herbal drugs. (5) Q9. a) Write down the Biological Source, Life cycle and Chemical constituents of (10)**b)** Illustrate the method of preparation of Asava and Arista. (5)

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257	6 <sup>th</sup> Semester Regular Examination 2017-18 PHARM. BIOTECH BRANCH: B.Pharma Time: 3 Hours Max Marks: 100 Q.CODE: C271  Answer Part-A which is compulsory and any four from Part-B. The figures in the right hand margin indicate marks.													
		ine	_		_		_			te ma	irks.			
Q1.	a) b)	Define the followrite the definition	tion of Gene	expre	essior		<u>he qւ</u>	<u>iestic</u>	ons)				(2 x 10)	
257	c) d) e) f) g)	What is Immun Define Souther Define Clonal e Write the defini Define the term	n blotting. expansion. ition of Immo	bilizat	ion.	257			25	57		257		257
257	h) i) j)	What do you m Define Antigen Write the defini	?		ecom	Dinatio 257			25	57		257		257
Q2.	a) b) c)	Answer the fo Explain "Natura What is Antiboo Write the applie	al acquired p dy? cations of Ge	<i>assive</i> ene clo	e <i>imm</i> oning.	unity".		r type	e :				(2 x 10)	
257	d) e) f) g) h) i)	Write the name Write the princi What is Transc Write the uses Write about "Al What are the a Write the uses	ple of Immunication in properties of streptoking trifficially acquipplications of the properties of th	nology tein sy ase. <i>uired a</i> f Hybr	v. ynthe a <i>ctive</i> ridom	sis? immu a Tecl	-	gy?	25	57		257		257
257 <b>Q3.</b>	a)	How Genetic co	Part – E	(Ans			ur qı	<u>iestic</u>		57		257	(10)	257
<b>Q4.</b>	b) a) b)	Write about PC  Describe in det  Write the Prope	ails about th	plicati			ases	-		of Bio	sensor.	257	(5) (10) (5)	257

257	257	257	257	257	257	257		257
		Explain the different Write the advantage		-	ns in detai <b>l</b> s.		(10) (5)	
257		Describe the desig		•			(10) (5)	257
		What are the differ Write short notes of			niques? Describe	ELISA.	(10) (5)	
257		Explain any two mo			ation. <sup>257</sup>	257	(10) (5)	257
		Explain the proces Write Preparation,					(10) (5)	
257	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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		Answer	Part-A w	hich	is co	mpu	Isory	and a	any	foui	r fror	n Part-B.	
		The	e figures	in the	e rigl	nt-ha	nd m	nargir	ı ind	licate	e ma	rks.	
								e que					
Q1		Answer the f											(2 x 10)
	a)												
257		which is nec	•		out	tne p	rovisi	ons o	t the	257		_and lollet	25
		Preparation A		ies.		::'		ا ممامہ	Madi	اممنہ			
		<ul><li>i) Police, S</li><li>iii) Income to</li></ul>		I			,	cise, l ustom,			1		
	b)	,										9	
	D)	i) Seven	by Courion	OI IIIG	14 15 1		) Si		Ciy_		_ycai	J.	
		iii) Five					/) Fc						
	c)		d	li	cense				retail	sale	of dr	ugs.	
257	•	i) Restricte						n-ger				•	25
		iii) General,	Non-gene	ral		iv	, () Ge	eneral	, Res	tricte	ed		
	d)	GMP for Ayu						ines a	re in	clude	d in v	which of the	
		following sch		rug an	id Cos								
		i) Schedule					,	hedul					
	۵۱	iii) Schedule		DMD.	4ha m		,	hedul			من ام	a marriad of	
	e)	In the opinior pregnancy that											
257		i) Two;512,						vo, 10				257	25
201		iii) Two, 12,					,	-	-			231	23
	f)	When did the									d.		
	,	i) 1970	•		,		) 19		•				
		iii) 1960				iv	, 19	080					
	g)	Governments						Act in	١		a	nd regulate	
		the	_	0		rmacy	/.						
		i) 1945, pro	•										
257		ii) 1940,7noi	•			е	257			257		257	25
		iii) 1947, pro iv) 1945, pro				onal							
	h)	IAEC Under A				Ullai							
	"",	i) Indian At				sion							
		ii) Institution					ee						
		iii) Inter-Ame											
		iv) Internation					Cons	sultant	s				
257	i)	Requirement	of factor	y <sup>25</sup> pre	mises	s for				of <sup>25</sup> me	edical	device57 in	25
		Schedule		under	r Rule								
		,	M I, 139			ii)	,	hedul		-			
		iii) Schedule	M II, 86			İ۷	/) Sc	hedul	e M I	V, 76	3		

257		i)Col. R. N. Chopraii)Sir Joseph Bhoreiii)Lt. Col. H. A. J. Gidneyiv)Major General S. S. Bhatia257257257	
Q2		Answer the following questions :	(2 x 10)
	a)	Name the year of important legislation passed by Indian Parliament on pharmacy.	
	b)	Define first and subsequent Registrar of Pharmacy act.	
	c)	Write constitution and function of the Narcotic and Psychotropic Substance Consultative Committee.	
257	d)	Define 'Advertisement' and 'Magic remedy'.	
	e)	Give important features of Bonded Laboratory.	
	f) g)	What criteria shall have needed for performing experiment on animals?  Define 'Proprietary medicine' and 'Misbranded drug'.	
	h)	Highlight on prohibited advertisement under Drugs and Magic remedies Act, 1954.	
	i)	What is Schedule C & C <sub>1</sub> ?	
	j)	Give a formula for calculating retail price of drug.	
257		257 257 257 257 257	
Q3	a)	Part – B (Answer any four questions)  Describe the constitution and important functions of Pharmacy Council of	(10)
QJ	aj	India.	(10)
	b)	What are the educational regulation of pharmacy council of india?	(5)
Q4	a) b)	Give an overview on Code of Pharmaceutical Ethics.  Explain constitution and function of Drugs Technical Advisory Board.	(10) (5)
0.57	υ,	Explain condition and function of Brugo Toolinical Advisory Board.	(0)
Q5	a)	How the Medical Termination of Pregnancy Act and Rules are regulating unwanted or medical undesirable pregnancy in India.	(10)
	b)	How prices of bulk drugs are determined under Drug Price Control order, 1995.	(5)
Q6	a)	Discuss on prohibition, control and regulation of Narcotic and Psychotropic	(10)
	•	substances under the Act.	. ,
257	b)	Write duties of Drug Inspector.	(5)
Q7	a)	What are the important features of the Medicinal and Toilet Preparation Act	(10)
	•	and Rules?	. ,
	b)	Write short note on 'The Drugs Price Control Order'.	(5)
Q8	a)	How unethical practice on animals can be controlled under the Prevention of	(10)
	1- \	Cruelty of animal act?	<b>(5</b> )
257	b)	Explain <sub>25</sub> different substances regulated under Narcotic Drugs and Psychotropic Substances Act, 1985 and rules framed there under from time to time.	(5)
Q9	a)	Write on Prohibition, Exemptions of advertisement and penalties under the	(10)
	•	Drugs and Magic Remedies Act.	
	b)	Give a detail study on The Drugs Consultative Committee.	(5)
257		257 257 257 257 257 257 257	

Pharmaceutical Enquiry Committee was constituted under chairmanship of

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Tota	Fotal Number of Pages: 01 257 257 257 257 257 257 257 257 257 257														B.Pharm PH.6.1		
257	Time: 3 Hours  Max Marks: 70  257  257  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) c)	Differentiate between Microcapsule and microsphere.  What is HEPA filter, mention it's function.  Define Disinfectant with two examples.  Discuss various factors influencing choice of Container.  Write the difference between Pull sealing and Tip sealing  Mention the core materials used for microencapsulation and write the application of microencapsulation													(2 x 10)		
257	d) e) f)														2.		
257	g) h) i) j)	Write the importance of Ophthalmic preparation Water attack test is only used in type I glass. True or false, justify? Mention different types of Propellants. What are different parts of aerosol package?															
Q2.	a) b)	Discuss differ Mention brief													(5) (5)		
Q3.	a) b)	Write notes o Write in detai						cess (	of Par	enter	als.				(5) (5)		
<b>Q4.</b> 257	a) b)	What is pack Mention the t							utical <sub>l</sub>	packa	aging.			257	(5) (5)		
Q5.	a) b)	Describe the Methods are						ol.							(5) (5)		
Q6.	a) b)	What is ophth Discuss vario					d for	it's pr	epara	ations	with	exam	ple.		(5) (5)		
<b>Q7</b> .57		What is asep parenteral pro			iscus	s the	layou	t and	desig	n of a	asepti	c area	a for	257	<b>(10)</b> 2		
Q8.	a) b) c) d)	<ul><li>Pharmaceutical aerosol solution system.</li><li>Evaluation of microcapsules.</li></ul>												(5 x 2)			

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257				ARM	ACE		AL J RAN Tir Ma Q. (	IURIS ICH : ne : 3 x Ma COD	SPRU B.PI 3 Hou Irks : E : C	JDEN narm urs 70 197	ICE <i>i</i> a	AND	ETH		257	PH.6.1	1
257	Answer Question No.1 which is compulsory and any five from the rest.  The figures in the right-hand margin indicate marks.														st.	2	
<b>Q1</b> 257	a) b) c) d) e) f) g) h) i)	Answer the following questions:  Define the terms 'Patent' and 'Patentee'.  What facilities are available in a factory under 'The Factories Act'?  Write Schedule – I & II under The Drugs Price Control Order.  Who are elected members of Pharmacy Council of India (PCI)?  Name Chairperson and Assistant secretary of Drug Enquiry Committee.  What ethics a pharmacist should follow in relation to handling of drugs?  What is Schedule P and X?												(2 x 10)			
<b>Q2</b> 257	a) b)	,													(5) (5)	2	
Q3	a) b)	(RMP) under The Medical Termination of Pregnancy Act?															
<b>Q4</b> 257		Discuss of Pentobar								ugs. V	Vrite	spec 257	imen	label	ing of	(10)	2
Q5	a) b)	Describe What typ and Magi	e an	d cor	nditio	n of a						•		The	Drugs	(5) (5)	
<b>Q6</b> 257	a) b)	Describe Write the (IAEC). 25	con						•				thics	Comi	mittee 257	(5) (5)	2
Q7	a) b)	What are complete Describe officer'.	spec	ificat	ion o	f Pate	nt?						-			(5) (5)	
<b>Q8</b> 257	a) b) c)	Write short answer on any TWO: Poisons Act 1919.  257  257  257  Import and manufacture of Cosmetics under Drug & Cosmetics Act. How to calculate the retail price of a formulation under Drugs and Price control order?											(5 x 2)	2			

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257 257		<sup>257</sup> Answer Que The	6 <sup>tt</sup> stion	No.	PHA (N E	ARMA MED. BRAN Tir Ma Q.0 ich is	A CH CHE ICH: me: IX Ma CODI s cor	EMIST B.P. 3 Hours: crks: E:Can	STRY RY - harm urs 70 407 sory	' - VI II) aa and	any₅	five 1		257 the re		25 25			
<b>Q1</b> 257	Answer the following questions:  a) Give the structure and uses of amantadine. b) Differentiate between neuroleptics and analeptics with suitable examples. c) Write the synthesis of a non steroidal synthetic estrogen. d) Give one structure and nomenclature of hydantoin derivative drug. e) Write any one structure and nomenclature of diuretics.  257 f) Outline the different stages of General Anesthesia with drug examples. g) Explain androgens and anabolic agents with suitable examples. h) Write the structure and uses of Alprazolam. i) Differentiate between steroids and opioids with suitable examples. j) What is hypertension? Give the structure and uses of nifedipine.												(2 x 10)	25					
<b>Q2</b> 257	a) b)	Define and cla Outline the sy									e exa	mples	<b>3.</b>	257	(5) (5)	25			
Q3	a) b)	Discuss the examples. Outline the sy							-				ith su	ıitable	(5) (5)				
Q4	a) b)	Define and cla Write the synt										mples	i <b>.</b>		(5) (5)				
257 <b>Q5</b>	a) b)	Define and cla Write the synt		diure									each c	257 lass.	(4) (6)	25			
<b>Q6</b>	a) b) c) d)	Write the syr Lignocaine Thiopental so Pethidine Amphetamine	dium	is an	<b>d the</b>	rape	utic u	ses C	of the	follo	wing	_	s:	257	(2.5 x 4)	25			
Q7	a) b)	Classify vario Outline the sy											ples.		(4) (6)				
Q8	a) b)	Write Short No General anae CNS stimulan	stheti												(5) (5)				

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Total Number of Pages: 01  6th Semester Back Examination 2017-18 PHYTOCHEMISTRY BRANCH: B.Pharma Time: 3 Hours Max Marks: 70 Q.CODE: C272  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) c) 25d) e) f) g) h) i)	Answer the following:  Write the structure and numbering pattern of penicillin.  How do you know the presence of tertiary nitrogen in an alkaloid?  What is Shinoda test and Its' use?  How TLC helps in the separation of phyto constituents.  What is isoprene rule? Explain with examples.  Write the difference between cardinolide and bufadinolides.  Write the structure and numbering pattern of Scillaren A.  Write the stereochemistry of Menthol.  What is super critical fluid, and how it is helpful in the extraction.  What is Zesel's method? What purpose it is used?	(2 x 10)											
Q2. <sup>257</sup> a) b)	Define and classify terpenoid.  Elucidate the structure of Citral.	(3) (7)											
Q3.	Write the general methods used for isolation of phytoconstituents from the extracts.	(10)											
<b>Q4.</b> 257	What are cardiac glycosides? Write the chemistry of Digitoxin and Oubain.	<b>(2+8)</b>											
Q5.	What are vitamins? Classify them and elucidate the structure of vitamin C.	(1+1+8)											
Q6.	Write down the chemistry and therapeutic uses of tetracycline.	(8+2)											

Classify alkaloid with examples. Elucidate the structure of Ephidrine by chemical

Q7.

Q8.

a)

b)

Define and classify flavonoids.

Write the chemistry of Quercitrin.

method. Write the stereochemistry of Ephidrine.

(4)

(6)

(2+6+2)

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Γotal N	umber of Page : 01	3.Pharm.	
257 257	6 <sup>th</sup> Semester Back Examination 2017-18 PHARMACOGNOSY - IV BRANCH: B.Pharma Time: 3 Hours Max Marks: 70 Q.CODE: C472 Answer Question No.1 which is compulsory and any five from the rest The figures in the right hand margin indicate marks. Answer all parts of a question at a place.	PH.6.7	25
Q1. a) b) c)	Answer the following questions: Write the biological source of Lobelia. Give an account on Asava. Mention the biological source of Satavari.	(2 x 10)	
257 <b>d)</b> e) f) g) h) i)	Name two marketed products of Bhasma.  What are the Chemical constituents and uses of Neem  Mention the biological source of Rauwolfia.  Which important chemicals are present in Tulsi.  What is the biological source of Spirulina?  Highlight the source and utilization of Quinine.  Specify the important chemical constituents of Gokhru.		25
<b>Q2.</b> <sub>257</sub>	Explain the detail Pharmacognosy of Belladona.	(10)	25
Q3.	Write the general methods of Extraction and Isolation of Alkaloids.	(5+5)	
Q4 <b>.</b>	Describe in details about the production and utilization of Podophylotoxin and Diosgenin.	(5+5)	
Q5.	Write down the method of preparation of Ayurvedic dosage forms:	(E)	
a) <sup>257</sup> b)	Arista Taila  257 257 257 257 257 257	(5) (5)	25
Q6.	Give the details of Botanical source, Chemical constituents, Uses and marketed formulations of:		
a) b)	Punarnava Gymnema	(5) (5)	
<b>Q7.</b>	What are the Biological source, Chemical constituents, Chemical test and Uses of following drugs:		25
a) b)	Colchicum Ipecac	(5) (5)	
Q8. a)	Explain the detail Pharmacognosy of following drugs: Ergot	(5)	
b)	Brahmi	(5)	

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	PHARMACOLOGY - II  BRANCH: B.Pharma 957 957													
	257	257		201			201	ma		257		257	7	257
	Time : 3 Hours Max Marks : 70													
Q.CODE : C320														
Answer Question No.1 which is compulsory and any five from the rest.  The figures in the right hand margin indicate marks.														
		l he tiç	gures i	n the r	ght h	and	marg	ın ın	dica	te ma	arks.			
Q1.		Answer the follo	wing q	uestion	s:								(2 x 10)	
	a)	Define coagulant		•	_					257		257		257
	b)	Write the differen							issay.					
	c) d)	Write one examp What are fibrinoly					น แร น	ise.						
	e)	Name any four C					JS.							
	f)	What is PSVT? N		-	-						VT.			
	g)	What are antitussive drugs? Metion any two antitussive agents.  Write two examples of AT1 blockers and their uses.  257 257												0.57
	h) i)	Name any two ar						s.		257		201		257
	., j)	Write any two res	-	_				s.						
								-					<b></b> \	
Q2.	a)	Classify antiasthe mechinism of the								e dow	n abo	out the	(5)	
	b)	Write the mechar						-		tabiliz	zer.		(5)	
	257	257 257 257 257 257 257										(5)	257	
Q3.	a)	spironolactone.												
	b)													
	•												(5)	
Q4.	a)	Briefly discuss ab		-									(5) (5)	
	D)	<ul> <li>b) Describe about the mechanism of action and uses of calcium channel blockers.</li> </ul>												
	257	257		257			257			257		257	7	257
Q5.	a)	Write the mechan						_					(5)	
	b)	Briefly discuss ab	out the	pharma	colog	y of q	uinidir	ne.					(5)	
Q6.	a)	Define aticoagula	ants. Wr	ite the n	nechai	nism :	and a	dvers	e effe	ect of	warfaı	rin.	(5)	
-	b)	,												
Q7.	257	Classify antianging Glyceryl trinitrate		gs. Write	e the	mech	anism	ı, adv	erse	effec	ts & ι	ises of	(10)	257
		Olyceryi tililitate.	•											
Q8.		Write note on ar	_	):									(5 x 2)	
	a)	Bioassay of Insulin.												
	b) c)													
	d)	Plasma volume e	xpande	ers										
	257	257	•	257			257			257		257		257