257	Registration no:       257       257       257       257         Zotal Number of Pages: 02       02	257 257 В <b>ВНАРМ</b>
	5 <sup>th</sup> Semester Regular / Back Examination 2016 PHARMACEUTICS – IV (PHARM. TECH. – I) BRANCH: PHARMACY	9-17
257	<ul> <li>257 257 Time: 3 Hours 257 Max Marks: 70 Q.CODE: Y123</li> <li>Answer Question No.1 which is compulsory and any five The figures in the right hand margin indicate m</li> </ul>	e from the rest. arks.
257	<ul> <li>Q1 Answer the following questions: 257 257</li> <li>a) What are enteric tablets? Give examples of two polymers used enteric coating.</li> <li>b) Write four objectives of tablet coating.</li> <li>c) Differentiate between creams and ointments.</li> <li>d) Define bloom strength. Describe the method of determination.</li> <li>e) What is displacement value? Write its application</li> </ul>	<sup>257</sup> <b>(2 x 10)</b> <sup>257</sup>
257	<ul> <li>f) What is base adsorption? Write its application.</li> <li>g) What is sublingual tablet and write its merits.</li> <li>h) How emulsifying agents stabilize the system? Name two examp</li> <li>i) Define capsule and write its merits.</li> <li>j) Mention basic components of automated tablet compress machine and write their function.</li> </ul>	257 257 Diles. sion
257	<ul> <li>Q2 a) Define emulsion. Write different symptoms of instability emulsion.</li> <li>b) Define suspension. Differentiated between flocculated deflocculated suspension.</li> </ul>	of (5) 257 257
	<ul> <li>Q3 a) Define ointment. Describe manufacturing procedure of ointment</li> <li>b) Write factors affecting drug permeation from semisolid dosage for over skin.</li> </ul>	is. <b>(5)</b> form <b>(5)</b>
257	Q4 Define suppository. Write ideal requirements of suppository bases. Write on evaluation tests suppository.	ses. <b>(10)</b> s for
	<ul> <li>Q5 a) Describe in detail wet granulation method mentioning equipments in each step.</li> <li>b) Write various quality control tests for evaluations of tablets.</li> </ul>	the (5) (5)
257	257 257 257 257 257 257	

Q6	a)	Describe the manufacturing of soft gelatin capsules by rotary die		(5)	
257	b)	Describe equipments for filling of hard gelatin capsule. <sup>257</sup>	257	(5)	2
Q7	a) b)	Write soft gelatin capsule formulation ingredients and their role. Write various tablet manufacturing or compression defects and their remedies.		(5) (5)	
<b>Q8</b> 257	a) b) c)	Write short notes on any two: Emulsifying agents. 257 257 257 Sugar coating. Creams.	257	(5 x 2)	2

Page 222

d) Antioxidants.

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B.PHARM PH.5.11

## 5<sup>th</sup> Semester Regular / Back Examination 2016-17 COMMUNITY PHARMACY AND HEALTH EDUCATION BRANCH: PHARMACY Time: 3 Hours Max Marks: 70 Q.CODE: Y434

## 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)	Answer the following questions: What is a Universal antidote? Classify food by their function. What are the causative agents of TB and Leprosy?	(2 x 10)	
257	a) e) f) g) h) i)	Define demography       237         Name the various physical methods of contraceptives.       237         Mention the sources of iron.       Write notes on prevention of malaria.         Name four water borne diseases.       What are principal nutrients?         Define patient counselling.		257
Q2	a)	Define and classify vitamins. Mention the deficiency syndromes of	(5)	257
	b)	Describe Balance diet	(5)	
Q3		Describe the various methods for family planning. Which of them will you suggest to a couple as the safest?	(10)	
Q4		Write aanote on role of pharmacist in community health education. 257	(10)	257
Q5	a) b)	Write in details on TB. Write in details on AIDS.	(5) (5)	
Q6	a) b)	Classify the vital constituents of food. Write a note on Protein calori malnutrition (PCM)	(5) (5)	
257 Q7	a) b)	Describe the organisation retail drug store. Write notes on some air borne diseases.	(5) (5)	257
Q8	a)	Write short notes on any two: Describe the first aid for burns	(5 x 2)	
257	b) c) d)	Describe the first aid for fracture Describe the first aid of shock		257

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	Tot	al Nı	umber of Pages: 2				<u>B</u>	<u>B.PHARI</u> PH.5.	<u>M</u> 3
257		251	<sup>7</sup> 5 <sup>th</sup> Seme	ester Regular / APPLIED M BRANCI Time: Max M	Back Exami ICROBIOLO H: B.PHARM : 3 Hours Marks: 70	nation 2016-1 GY	7		257
				Q.CO	DE: Y168				
257		Ans	wer Question N The figure	lo.1 which is co es in the right h	ompulsory a nand margin	nd any five fro indicate mark	om the s.	rest.	257
	Q1	a)	<b>Answer the follo</b> Write different ap and scope.	<b>wing questions:</b> plied fields of Mic	crobiology in te	erms of their imp	ortance	(2 x 10	)
257		b) c) <sup>257</sup> d) e) f) g)	What are plasmids Write the functions Write about the m Define & differenti Moist heat steriliza What are obligate	s? s of Mesosomes in otility mechanism a ate Bactericide & E ation is more effect e anaerobes? Su	Gram positive and organs of n Bacteriostatics. tive than dry he ggest two mee	bacteria. notility of spiroche at sterilization. Co dia for determina	etes. omment. ation of		257
57		h) i) 257 j)	What is cold sterili What do you mean What are the co importance.	ization? Write few n by decimal reduc ontrol tests empl	applications of ction time (D12 <sup>-</sup> oyed in test	cold sterilization. 1)? <sup>287</sup> for sterility? Giv	ve their		257
	Q2	a)	Classify bacteria arrangements. Wr cell with a neat lab	a according to ite about structure beled diagram.	their morph & morphologic	nological shape cal features of a b	s and bacterial	(5)	
257		<b>b)</b>	Define growth. De a typical growth cu	escribe the four pha urve.	ases of the bac	teria growth by d	epicting	(5)	257
	Q3		What are stains? staining methods staining and Acid-	Mention the princip used for microl fast staining techn	ble involved in s be identificatio ique.	staining. List the o n. Write about	different Gram's	(10)	
257	Q4	251	Define the terms I of Mutation. Give a	Mutation, Mutants a brief note on isol	& Mutagens. W ation of Mutant	/rite in detail abo s.	ut types	(10)	257
	Q5	a)	What is sterilization note on working prethods of steriliz	on? Classify differe orinciple and cons cation.	ent methods of truction of equ	sterilization. Give ipments used in	e a brief thermal	(6)	
257		<b>b)</b> 257	What are the diffe phenol-coefficient	rent methods usec method.	for evaluation	of disinfectants?	Explain	(4)	age 1

Q6 (10) Write about the principles of sterility testing and what are the necessary precautions taken into consideration during sterility testing. Describe about the general procedure or methods used for sterility testing of pharmaceuticals. Q7 What is Microbiological Assay? Write the importance and principle involved (10) in the microbiological assay of antibiotics and vitamins. Describe the method used for microbial assay of Streptomycin as per I.P. **Q**8 Write sort notes on any two: (5 X 2) a) Protoplast fusion **b)** Isolation and preservation of pure cultures

c) Morphology of fungus

d) Virus multiplication cycle

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257		257	BRANC <sup>257</sup> Tim Max Q.C	CH: PHARMAC ne: 3 Hours Marks: 70 CODE: Y230	<b>Y</b> 257	257		
A	nsv	ver Question N The figure	o.1 which is as in the righ	compulsory t hand margi	and any five n indicate ma	from the arks.	e rest.	
257		257	257	257	257	257		
<b>Q1</b>	a) b) c) d) e)	Answer the follo Define bioisoster Define antispasm What are neurom Give the structu antipyretic agent	owing question ism with suitable nodics with suita nuscular blockin ure, nomenclat	<b>is:</b> e examples. able examples g agents? ure and outline	e the synthesis	of an	(2 x 10)	
	f)	What is partition	c blocking agen coefficient? Out	ts. Give exampl tline its importar	es. 257 nce in drug desig	257 <b>n.</b>		
	f) g) h) i) j)	What is partition Give the structure Outline the synth Define analgesics What are eicosar	c blocking agen coefficient? Out e and mechanis esis and uses c s with suitable e noids?	ts. Give exampl tline its importar of action of n of cimetidine. examples.	les. <sup>257</sup> nce in drug desig eostigmine.	257 n.		
Q27	f) g) h) i) j) a)	What is partition Give the structure Outline the synth Define analgesics What are eicosar Discuss the effect with suitable example	c blocking agen coefficient? Out e and mechanis esis and uses o s with suitable e noids? cts of Optical Iso mples.	ts. Give exampl tline its importan of action of n of cimetidine. examples.	les. <sup>257</sup> nce in drug desig leostigmine. ogical Activity. Ju	257 n. Jstify 257	(5)	
Q27	f) g) h) i) j) a) b)	What is partition Give the structure Outline the synth Define analgesics What are eicosar Discuss the effect with suitable exact Discuss briefly mechanisms with	c blocking agen coefficient? Out e and mechanis esis and uses c s with suitable e noids? cts of Optical Isc mples. drug recepton n suitable examp	ts. Give example tline its important of action of n of cimetidine. examples. omerism on Biologian omerism on Biologian of the state of the state of the other state of the state of the other state of the state of t	es. <sup>257</sup> nce in drug desig eostigmine. ogical Activity. Ju including trans	ustify 257	(5) (5)	
Q2 <sub>7</sub> Q3 257	f) g) h) j) a) b)	What is partition Give the structure Outline the synth Define analgesics What are eicosar Discuss the effect with suitable exact Discuss briefly mechanisms with Discuss briefly H in quantitative de	c blocking agen coefficient? Out e and mechanis esis and uses o s with suitable e noids? cts of Optical Iso mples. drug receptor n suitable examp lansch analysis	ts. Give example line its important of action of n of cimetidine. examples. omerism on Biologic merism on Biologic r interactions oles. and the differe g action.	es. <sup>257</sup> nce in drug desig eostigmine. ogical Activity. Ju including trans ent parameters in <sup>257</sup>	257 n. ustify 257 duction nvolved	(5) (5) (5)	
Q2.7 Q3 257	f) (h) (j) (a) (b) (b)	What is partition Give the structure Outline the synth Define analgesics What are eicosar Discuss the effect with suitable exact Discuss briefly mechanisms with Discuss briefly H in quantitative de	c blocking agen coefficient? Out e and mechanis esis and uses o s with suitable e noids? cts of Optical Iso mples. drug receptor a suitable examp lansch analysis escription of drug	ts. Give example tline its important of action of n of cimetidine. examples. omerism on Biol merism on Biol r interactions oles. and the difference g action.	les. <sup>257</sup> nce in drug desig eostigmine. ogical Activity. Ju including trans ent parameters in <sup>257</sup> n suitable examp	257 n. ustify 257 duction nvolved 257 les.	(5) (5) (5) (5)	
Q2.7 Q3 257	f) (h) (j) (a) (b) (b) (a) (b) (a)	What is partition Give the structure Outline the synth Define analgesics What are eicosar Discuss the effect with suitable exact Discuss briefly mechanisms with Discuss briefly H in quantitative de Discuss briefly M What are adrene examples.	c blocking agen coefficient? Out e and mechanis lesis and uses o s with suitable e noids? cts of Optical Iso mples. drug receptor suitable examp lansch analysis escription of drug colecular Conne	ts. Give example line its important of action of n of cimetidine. examples. omerism on Biologic merism on Biologic r interactions oles. and the difference g action. 257 ctivity Index with lassify adrenerg	les. <sup>257</sup> nce in drug desig eostigmine. ogical Activity. Ju including trans ent parameters in <sup>257</sup> n suitable examp ic agents with su	257 n. Ustify 257 duction nvolved 257 les.	(5) (5) (5) (5)	

257	257	257	257	257	257	257		257
257	Q5 a)	Define and classi briefly the structur	fy cholinergic a re activity relat	agents with suit ionship <sup>°</sup> of Acety	able examples. /Icholine.	Discuss 257	(5)	257
	b)	Write the synthes Bethanechol.	is protocol, mo	ode of action, us	ses of Acetylcho	oline and	(5)	
	Q6 a)	Define and Class mechanism of No	ify NSAIDs wi n-Steroidal An	th suitable exai ti-Inflammatory	mples. Give the Agents.	general	(5)	
257	257 <b>b)</b>	Outline the synt naproxen.	hesis and giv	ve the uses o	of phenylbutazo	one and	(5)	257
	Q7 a)	Define and class nucleus.	sify anti-histan	ninics on the I	basis of their o	chemical	(5)	
257	<b>b)</b>	Outline the syn chlorpheniramine.	thesis and g	ive the uses	of promethaz	ine and	(5)	257
	Q8	Discuss briefly dr Describe briefly t alkaloids.	ugs affecting he chemical r	uterine motility nature and use	with suitable ex s of oxitocin an	amples. nd ergot	(10)	
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257	• <sup>257</sup> • •		257	257	257	257	(0 4 0)	257
	Q1 A a) D	nswer the follow efine competitive	antagonism witl	n example.			(2 X 10)	
	<b>b)</b> D	efine apparent vo	lume of distribut	tion.				
	<b>c)</b> D	efine Bioavailabi	lity. What is its s	ignificance?				
	<b>d)</b> W	hat is co-transmi	ssion? Give one	example.				
257	257 <b>e)</b> W	rite different type	es of cholinocept	ors with their loca	ation. <sup>257</sup>	257		257
	<b>f)</b> M	lention the enzym	es involved in m	etabolism of cate	cholamines.			
	<b>g)</b> G	ive two examples	of reversible typ	be of cholinesteras	se inhibitors.			
	<b>h)</b> W	rite examples of	centrally acting i	muscle relaxants.				
	i) B	enzodiazepines ar	e preferred over	barbiturates- com	nment.			
257	<sup>257</sup> <b>j)</b> W	rite the mechanis	m of action of p	henytoin.	257	257		257
	<b>Q2 a)</b> D	efine receptor and	l mention their ty	ypes.			(4)	
	<b>b)</b> D ex	escribe the ion c cample.	hannel receptor	mediated mecha	nism of drug act	ion with	(6)	
257	<b>Q3</b> ∞ a) E: b) W	xplain briefly the Vrite the classifica	neurohumoral tr tion, pharmacolo	ansmission of cho ogical action and u	olinergic nerves. uses of cholinergic	c drugs.	(5) (5)	257
	<b>Q4</b> W m	/hat is epilepsy? C echanism of actio	Classify the antie on and adverse ef	pileptic drugs wit fects of phenytoir	h examples. Write 1.	e the	(10)	
257	257	257	257	257	257	257		257

257	Q5 <sup>257</sup> Q6 a) b)	What is bipolar disord action of Tricyclic ant Write short notes on Antianxiety CNS Stmulants	ler? Classify idepressants.	antidepressants. W	Vrite the pharma	cological 257	(10) (5×2)	257
257	Q7 a) b)	Write notes on the folle Plasma protein binding Biotransformation	owings- g	257	257	257	(5×2)	257
257	Q8 257 a) b) c) d)	Write mechanism of a NSAIDs Local anesthetics Benzodiazepines Non depolarizing skele	ction of follo <sup>257</sup> etal muscle re	wing drugs: 257 elaxants	257	257	(2.5x4)	257
257	257	257	257	257	257	257		257
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257	257	257 Answer Quest	Pharmace BRANG Tim Max Q.C tion No.1 which is	utical Analys CH: B.PHARM e: 3 Hours marks: 70 ODE: Y369 compulsory a	sis-II <sup>257</sup> nd any five from	257 the rest.	25
		The	figures in the right	t hand margin	indicate marks.		
257	257 Q1	257 Answer the f	following question	257 S <b></b>	257	257 (2 x 10)	257
257	a) b) c) d) e) <sup>257</sup> f) g) h) i)	What is BM re Define redox Write down th What is lodim What is lodim What are redo What are redo What is half w What is Hapte What are the	eagent? potential and forma ne advantages and on hetry and lodometry ox indicators? Class baking in glass elect vave potential? Writ E? Explain? en? factors affecting dif	l potential? disadvantages ? sify them with e rodes is neces e down the Ilko fusion current?	of DME over RPM examples? sary before use? ovic equation?	1E? 257	25
	Q2 a)	What is Elect Gel and capil	trophoresis? Explain lary electrophoresis	h the principle briefly?	and instrumentati	on of <b>(5)</b>	
237	<sup>237</sup> b)	Write in brief	about various electr	rodes úsed in p	otentiometry?	(5)	20
	Q3 a) b)	Describe ab titrations? Write in brief	out the principle about the role and f	and application	ons of potention meter?	netric (5) (5)	
257	<b>Q4</b> 257	Describe brie of Nephelome	fly about the princi	iple, instrumen ⁄? <sub>257</sub>	tation and applica	ations (10)	25
	Q5 a) b)	Write in brief Explain briefly	about the standardi y about the principle	sation of 0.1 N and methodol	lodine solution? ogy of conductom	(5) etry? (5)	
	Q6 a) b)	Describe in bi Write in brief	rief about the princip about the types of c	ole and applica conductometric	tions of Polarogra titrations?	phy? (5) (5)	
257	257	257	257	257	257	257	25
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257	257	257	257	257	257	257	257
	Q7 a)	Write in brief about indophenol?	the standard	isation of Sodiu	ım 2, 6 dichloro	phenol (	5)
	b)	Describe about the briefly?	principle and	d applications o	of Diazotisation	titration (	5)
257	257		257			257	
	Q8 a) b) c) d)	Write short notes Kjeldahl method Coulometry Radioimmuno assa Karl fischer titration	on any TWO y	:-		(5 )	( 2)
257	257	257	257		257	257	

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