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		Answer Par			•		•	•						
	257	r are returned and the queetiener,												257
Q.1		Answer the following	lowing:											(2 x 10)
	a)	The non-drug co	omponen	ts in d	losag	ge for	m cal	led a	ıs			·		
	b)	Gum acacia ina	n emulsic	n is u	sed a	as								
	c)	Liquification is the	he examp	le of _				_ Inc	ompa	atibilit	ly.			
	d)	Out of the capsuis the smaller?	ule sizes	00,72,	3, 5;		257	_one	e is tl	he la	rger a	and <sup>257</sup>		257
	e)		"Rx" indicates part of the prescription and "sign." In prescription means											
	f)	Simple syrup IP	contains			%	of							
	g)	The concentrate or animal drugs					_	acti	ve pı	rincip	les c	f vegetal	ble	257
	h)	Dry powder enclosed in a shell is referred as and are preparations which are generally used for cleansing the surfaces of the teeth												
	i) 257	Proof spirit is	alcohol b	% y yolu	alcome ir	ohol n The	by vo Britis	olume sh / li	e in ndiar	the syst	US s tem.	system a	ind	257
	j)	Convert into me	tric syste	m: 21	table	spoo	nful =		ar	nd 1 (	Gallo	n =		
Q.2		Answer the following	lowing:											(2x10)
	a)	What is displace	ement val	ue? G	ive it	ts sig	nifica	nce.						
	b)	Define aromatic	waters. N	/lentic	n its	uses								
	C)	Differentiate bul	k powder	s and	divid	led po	owde	rs.		257		257		257
	d)	What is Tincture		? Wri	te its	com	positi	on.						
	e)	What is tablet tri				1 /0/			0 D					
	f)	Calculate the re What are throat	•			`	,	30°	·O.P.	•				
	g) h)	Differentiate bet	•			•	ıc.							
	257 i)	What are Linctu		257	•		257			257		257		257
	j)	Translate the fo		•				า: (i)	Ad	libitu	m (ii	) auristilla	ae	Page 1

## Part-B (Answer any four questions)

Q.3 Write the important developments in the history of Indian Pharmacopoeia. (5) Define the term "Prescription". Explain the parts of a prescription in detail (7+3)with an example of a typical prescription. Write briefly, how to handle a prescription. (3+3+4)**Q.4** What are the ideal characteristics of dosage forms? Classify solid dosage forms with examples. Add a note on dispensing of powders. b) Discuss briefly the dispensing procedure of ointments. (5) Q.5. a) Define emulsion and classify different types of emulsions. Mention the (4+2+4)various methods of preparation of an emulsion. Discuss in details how liquid paraffin emulsion prepared by dry-um method. Write on formulation and filling of hard gelatin capsules. (5) (5+5)**Q.6** Classify liquid dosage forms with examples. Discuss the principle and dispensing procedure adopted for suspensions. Write briefly how the calamine lotion dispensed with a proper label. (5)Define posology and discuss the various factors which affect the dose of a (10)Q.7. a) drug in detail. If 500 mg of drug is given to an adult, Calculate the dose for (5) i) a child of 10 years old ii) a child having body weight of 20 pound. **Q.8** What are various incompatibilities in a prescription? Write notes on physical **(7)** a) incompatibilities with suitable examples. b) What is extraction? Describe the Soxhlet apparatus and the process of (8) extraction taking place in it. **Q.9** Write notes on:- (Any three) (5x3)a) Effervescent Powders **b)** Suppository Bases c) Milks and Magmas d) Flexible Collodions

Inhalations

Registration no:						
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# 1<sup>st</sup> Semester Back Examination 2016-17 PHARMACEUTICS-I (DISPENSING & COMMUNITY PHARMACY)

(According to Old Syllabus)
BRANCH: B.PHARM
Time: 3 Hours

Max Marks: 70 Q.CODE: Y673

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:

 $(2 \times 10)$ 

- a) What is international pharmacopoeia and its utility?
- **b)** Classify semisolid dosage forms with examples.
- c) Differentiate simple and compound powders.
- d) Mention the uses of aromatic waters.
- e) What is meaning of D/P and U/P of proof spirit?
- **f)** Differentiate ointment and paste.
- **g)** What are mucilages? Give any two examples.
- h) What are dry extracts?
- i) Write how to prepare 300ml of 60% v/v of alcohol from 80% v/v and 20% v/v of alcohol.
- j) Translate the following Latin terms:
  - (i) t.i.d
  - (ii) ante cibos
  - (iii) cochlear amplum
  - (iv) fiat pulvis
- Q2 a) Briefly describe in steps about the development and evolution of Indian

  (6)

  Pharmacopoeia.
  - **b)** Define the terms dose, dosage form and dosage regimen. Mention **(4)** desirable properties of a dosage form.

Ų3		function.	(10)	
Q4	a) <sup>25</sup>	What is Soxalation? Describe the process of extraction by using a Soxhlet apparatus.	(6)	
	b)	Write on reserved percolation and its advantages.	(4)	
Q5	<b>a)</b>	Define and classify emulsions and mention its advantages. Explain any four tests to identify emulsions.	(7)	
	b)	Write a brief note on causes of instability in emulsions.	(3)	
Q6	a)	Define posology and discuss the various factors which affect the dose of a drug in detail.	(6)	
	<b>b)</b>	If the adult dose of a drug is 50m calculate the dose of a boy of 12 years and 75 pounds by (i) Clarks formula and (ii) Gaubins formula	(4)	
Q7	25	What do you mean by incompatibility? Classify incompatibilities. Describe in detail about Therapeutic incompatibilities with examples and remedies.	(10)	
Q8		Write notes on any two of the following:	(5 X 2)	
	a)	Milk of magnesia		
	b)	Effervescent powders		
	<b>c)</b> <sub>25</sub>	<sub>57</sub> Lozenges and their preparation <sub>257</sub> <sub>257</sub> <sub>257</sub>		
	d)	Suppository bases		

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Tota	al Nu	umber of Pages: 2 (Two)	B. PHARM 15PH102
	257	257 257 257 257	15PH1U2
		1st Semester Regular / Back Examination 2016-17 INORGANIC PHARMA. CHEMISTRY	
		(According to New Syllabus) Time: 3 Hours	
		Max marks: 100	
		257 257 <b>Q. CODE: Y719</b> 257	
	257 <b>A</b> 🗠	•	257 25 - <b>4 (D)</b>
	AI	nswer Part- 'A' which is compulsory and any Four from Par	l- D .
		The figures in the right hand margin indicate marks.	
04		Part- A	(2×40)
Q1	a)	Answer the following questions: Which of the following is used as a quenching vapour in GM counter?	(2x10)
	u,	i) Chlorine, ii) Bromine, iii) Ethyl formate, iv) All of these	
	25 <b>b)</b>	What are the methods used for purifying inorganic substances?	257 25
	,	i) Sublimation, ii) Recrystallisation, iii) Drying, iv) All of these	
	c)	What is the pH of blood of a normal volunteer?	
		i) 4.5-8, ii) 7.4-7.5, iii) 5.4-7.5, iv) 1.5-3.5	
	d)	Which of the following have vasodilation action?	N. 4
	۵)	i) Sodium nitrite, ii) Sodium thiosulphate, iii) Magnesium sulphate, iv) All of	these
	e)	Which of the following is used as a dental desensitizing agent?  i) Strontium chloride, ii) Zinc chloride, iii) All of these, iv) None of these	
	<sup>257</sup> <b>f)</b>	Carbon dioxide is stored in which coloured cylinder?	257 29
	٠,	i) Blue, ii) White, iii) Grey, iv) Black	
	g)	Ammonium carbonate is used as:	
		i) Cathartic, ii) Sedative, iii) Respiratory stimulant, iv) None of these	
	h)		
	• • • • • • • • • • • • • • • • • • • •	i) Dessicant, ii) Preservative, iii) Filter aid, iv) Suspending agent	
	<b>i)</b> 257	Sclerosing agents are used to prevent i) Edema, ii) Variceal bleeding, iii) Sepsis, 257 iv) Warts	257 25
	i۱	In the formation of chelate which of the following can be used as a ligand	
	j)	i) EDTA, ii) Magnesium, iii) Iron, iv) All of these	
Q2		Answer the following questions:	(2x10)
	a)	Explain universal antidote?	
	b)	What is dry ice? Mention its use.	
	25 <b>C)</b>	Explain the role of thioglycollic acid in the limit test of iron.	257 25
	d)	What is anti-rust tablet? Mention its composition & use.	
	e)	Define expectorant. Give two examples.  Mention the storage and uses of laughing gas.	
	f)	What is barium meal? Give its use.	
	g) h)	What is baltum mean Give its use.  What is the value of 'Z' generally the radio-active materials have?	
	i)	Why ammonia and potassium cyanide are used in the limit test for heavy metals?	
	25 <b>i)</b>	Combine antacid preparation is better than single antacid preparation. Justify it.	257 29

#### Part- B (Answer any four questions) Q3 a) Classify topical agents with suitable examples. Mention the mechanism action of (10)anti-microbial agents. Write down the monograph silver nitrite & hydrogen **b)** Write short notes on: i) Emetics, ii) Limit test of chloride (5) **Q4** a) Explain in details the limit test for arsenic along with a neat labeled diagram. (10)**b)** Write a note on various types of water listed in I.P. (5) (10)**Q5** a) What is an antacid? Classify it. Write down the ideal characteristics of an antacid. Write the monograph of any two antacid. **b)** Classify cathartics basing on their mechanism of action with suitable examples. (5) a) Explain the functioning of G.M. counter. What precautions are to be taken during (10)handling of radio pharmaceuticals? **b)** Give the applications of radio isotopes. (5) **Q7 28** Write short notes on: i) Haematinics, ii) dentrifrices (10)**b)** Write notes on the role of iodine in the body. (5) a) Classify antidotes according to the mechanism of action. Explain how cyanide (10)poisoning affects the body and how it should be treated. **b)** What is replacement therapy? Write down ORS. (5) a) Write down preparation, properties and uses of the following: (10)i) Zinc sulphate, ii) Boric acid, iii) zinc oxide, iv) Sodium fluoride (5) **b)** Write down the application of buffers in pharmacy.

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257 2 <b>A</b>	PHARMACEUTICAL CHEMISTRY- I  (According to Old Syllabus)  BRANCH: PHARMACY  Time: 3 Hours  Max Marks: 70  Q.CODE: Y720  Answer Question No.1 which is compulsory and any five from The figures in the right hand margin indicate marks.  Answer the following questions:  a) Define pH and Buffer capacity. b) Define Anti-Oxidants. Give two examples.													s.		25
257	b) c) d) e) f) g) h) i)	Define Anti- Write the pri What is blue Define Anti- What is the Write the co Define Emer What is the Explain the	Oxida inciple vitric caries role mpos tics a role advar	ants. e of liber of thick sition nd gi of lea ntage	Give imit to ive its of Uive or dependent of Control of	two est or s use Give olic a niver ne ex etate ombi	f sulp  two e cid ir sal ar ampl cotto nation	exam limit ntidot e. n in l n ant	ples. test e. imit to	est o thera	f arse	enic?		257		25
<b>Q2</b> <sub>257</sub>	a) b)	Define Laxa mechanism Write the mo	of ac	tion.	201			201		m a	ccorg	ding	totheir	257	(5) (5)	25
Q3	a) b)	What are an ideal character Write the mo	terist	ics o	f anta	acids	?				. Wh	at are	e the		(5) (5)	
<b>Q4</b> <sup>57</sup>		Explain in de labelled diag			nit⁵te	st of	Arse	nic al	ong v	with a	a nea	t and	l	257	(10)	25
Q5 Q6	a) b) a)	What are Haematinics? Write the monograph of Ferrous sulphate.											(5) (5) (5)			
<b>Q7</b>	b) a) b)	<ul> <li>Define Astringents.Write the monograph of Alum.</li> <li>Discuss about G-M counter.</li> </ul>										257	(5) (5) (5)	25		
Q8	a) b) c)	<ul><li>Electrolyte combination therapy and ORS.</li><li>Limit Test of Chloride.</li></ul>									(5 x 2)					
257	d)	Sources of i	mpur	ity to	phar	mac	eutica	al pro	ducts	3.	25	(		257		25

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Q.1		Write the cor	rect	answ	/er:										(2 x 10)	
	a)	ar	nd			are t	the co	ontra	ctile p	orotei	ns p	reser	nt in mus	cle	, ,	
	257 <b>h</b> )	fibres. Shoulder joint	ic fo	rmad	25 by	57			257 and			257 <b>bon</b>	100	257		2
	b)	•			-				IIIU			- 501	ICS.			
	c)	is kr								L						
	d)	Rhythmicity is	•	•	-					le.						
	<b>e)</b>	Cardiac outpu							257			257		257		
	<b>f</b> )	Bone is a			tis	sue.			201			231		231		
	g)	Skin contains				t	ype o	of epi	thelia	al tiss	ue.					
	h)		is t	he lo	nges	t and	stro	ngest	bone	e of o	ur bo	ody.				
	i)	Normal value	of ha	iemo	globii	n in n	nale i	is		ar	nd fe	male	is			
	<b>j)</b> 57	There are257			num	bers	of ve	rtebra	ae pr	esen	t in v	erteb	ral colun	nn. <sub>257</sub>		2
Q.2		Answer the fo	ollow	ving:											(2x10)	
	a)	What is the di	fferer	nce b	etwe	en o	steop	orosi	is and	d oste	eoma	alacia	?			
	b)	What is erythr What is mega	•		naer	nia?										
	d) <sup>7</sup>	Write different	type	s of \	WBĈ	and	their	func	tions.			257		257		2
	e) f)	What is Proxir Define Autolys		nd D	istal?	•										
	g)	Define haemo	stasi	s.												
	<b>h)</b>	What are the	antig	ens a		ntibo	dies	•	ent in	A⁺ b	lood	group	o?	257	,	ا مي

	i)	What is Abduction and Adduction?				
	<b>j)</b> <sub>57</sub>	Write different bone cells and their function	n <u>s</u>	257	257	2
		Part-B (Answer any F	our questions)			
Q.3	a)	With neat and labeled diagram discuss the	e structure of hu	man cell.		(5)
	b)	Describe the structure and functions of Pla Ribosome and Nucleus.	asma membrane	e, Mitochondria		(10)
Q.4	257 <b>a)</b>	Define and classify different types of tissu	257 <b>e</b> .	257	257	(5)
	b)	Describe the following:  I) Epithelial tissue II) Connective tissue				(5x2)
Q.5.	a)	Classify the bones and describe the micro	scopic structure	of bone.		(5)
	<b>b)</b>	Define and classify joints? Write details a	bout synovial jo	int. Write a note	257 • <b>on</b>	(10)
Q.6	a)	Arthritis. Classify different types of muscle tissues functions.	and write their p	hysiological		(5)
	<b>b)</b>	Write notes on:  I) ₂₅Neuromuscular junction.  II) Myasthenia gravis	257	257	257	(5x2)
Q.7.	a)	With neat and labeled diagram describe the human heart.	ne anatomy and	physiology of		(5)
	b)	Write notes on				(5x2)
		I) Angina				
	257	II) <sub>57</sub> Hypertension <sub>257</sub>	257	257	257	
Q.8	a)	Describe the composition and functions of	f blood.			(5)
	b)	Write short notes on				(5×2)
		I) Mechanism of coagulation				
	257	II) <sub>257</sub> Blood grouping <sub>7</sub>	257	257	257	2
Q.9	a)	Define lymph and discuss the functions of	f lymphatic syste	em.		(5)
	b)	Write the physiology and functions of: <ul><li>a) Lymph nodes</li><li>b) spleen</li></ul>				(5×2)
	257	257 257	257	257	257	

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# 1<sup>st</sup> Semester Regular Examination 2016-17 COMMUNICATIVE ENGLISH

BRANCH: PHARMACY Time: 3 Hours Max Marks: 100 Q.CODE: Y510

Answer Part-A which is compulsory and any four from Part-B.

The figures in the right hand margin indicate marks.

		Part - A (Answer all the questions)	
Q1	۵)	Answer the following questions: (fill in the blank)	(2 x 10)
	a)	A word that contains one syllable is known as a word.	
257	b)	An incomplete utterance always carries a intonation.	
	c)	Communication without the use of words is known as	
	d)	The medium that carries information from the sender to the receiver	
		refers to	
	e)	When the receiver is unable to cope with the different messages at a	
257		time, the situation is known as 257 257	
	f)	The IPA symbol /j/ is found in the sound represented by the	
		letter	
	g)	A verb which does not show/indicate tense in a sentence is called	
257	h)	A sound formed by the combination of two vowels is known as	
	•		
	i)	The process in which the receiver re-converts the words mentally into	
	-	the meanings is known as	
	j)	The prominence which is given, through greater breath force, to any	
257		particular syllable in a word is called 257 257	
Q2		Answer the following questions: As directed.	(2 x 10)
	a)	Write the other two alternatives of "Receiver".	
	b)	Pass away, give off (Make sentences using the phrasal verbs)	
	c)	The quality that does not allow to carry more information than is	
257		required, in order to, compensate, for information loss during	
		communication is known as redundancy. (Correct/Incorrect)	

**d)** What is given information? e) What do you mean by postures? f) 'I like chocolate, but I prefer cake.' (State the verb type) 'Negligence causes many serious accidents.' (Change the voice.) g) h) /s/mθin/, /bl/d/, /bəʊn/, /pleis/ (Convert the IPA symbols into words.) The fat cat sat on the mat. (Mark the stress) What is Stress shift? Part - B (Answer any four questions) As Intonation coveys the attitude of the speaker, what are the situations (10)Q3in which the use of a Falling-risingintonation is appropriate? Narrate with examples. **b)** Discuss the difference between State and Event verbs with examples. (5) English is a stress-timed language not syllable-timed. Justify. (10)Q4 **b)** Pragmatic rules are involved in discourse. Explain with examples. (5) a) Describe the process of communication. Discuss the different elements Q5 (10)that influence this process. b) Indian learners have problems with such English sounds for (5) pronunciation. Discuss. **Q6** a) Distinguish between Finite and Non-finite verb with examples. (10)**b)** Spoken communication is context-dependent. Justify. (5) Q7 a) What is Agreement in English grammar? Describe its different usages (10)with examples. b) What do you understand by Registers? Write at least two examples (5) related to your profession. Proper knowledge of body language helps an individual for Q8 a) (10)communicating better? Explain. Distinguish between RP and GA. Discuss their impacts on Indian (5) learners. Q9 a) Mark the Stress and Intonation in the sentences given below. (10) i) Water oozed through his nose. ii) Just look at his awful luck! iii) Your boss will have to climb into that bus. iv) You'll leave next week? v) The five fat fools fell into the river. b) What do you mean by 'Diphthong' and how many diphthongs are there (5) in English?

|--|

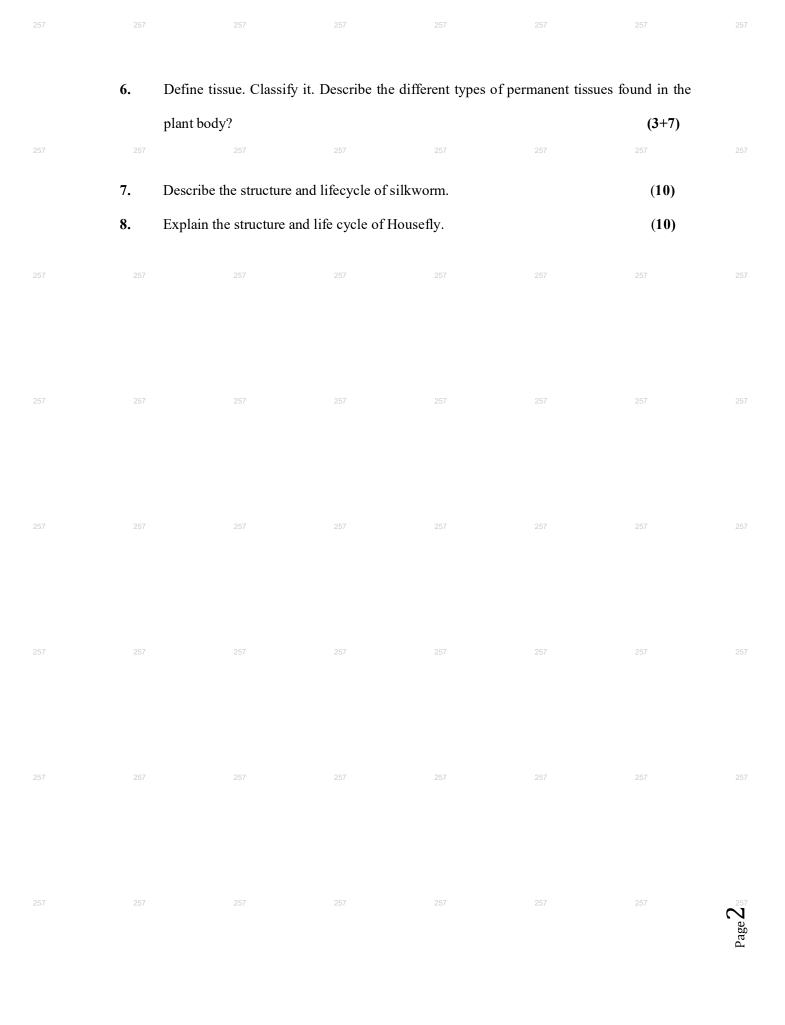
ıotaı	Nui	nber of Pages: 3			15PH105
	257	1 <sup>st</sup> Semester Regular / Back REMEDIAL BI (According to New BRANCH: PHA QUESTION CO Time: 3 Ho Max Marks: Answer Part-A which is compulsory	OLOGY w Syllabus) ARMACY DDE: Y744 Durs 100	257 :	257 2:
		The figures in the right hand	-		
	257	257 257 <b>Part-A</b>	257	257	257 25
Q.1	a)	Choose the correct answer:  Name the four elements present in xylem.			(2 x 10)
	b)	Food and feeding in Amoeba is  a) Circumvalation b) Invagination			
	257	c) <sup>257</sup> Both a and b <sup>257</sup> d) None of the above	257	257	257 2:
	c)	Cambium produces: <ul><li>a) Secondary xylem and</li><li>b) Secondary phloem</li><li>c) Parenchymatous cells</li></ul>			
	257	d) Sclerenchymatous cells e) Both a and b	257	257	257 2:
	d)	The property of response to a particular coamoeba is known as  a) Inflammation b) Irritability	ondition in the	environment in	
	257	c) <sup>25</sup> Solation <sup>257</sup> d) None of the above	257	257	257 2:

	e)	Respiration in Trypanosoma is					
	257	a) <sub>257</sub> Aerobic b) Anerobic c) Both a and b	257	257	257		2
		d) None of the above					
	f)	Is the disease caused	by Fasciola hepatica	I			
	g)	Leaves without petiole are terme	d as				
	257 <b>h)</b>	Digenetic parasite of Plasmodium host	n is due to the prese	nt of and	<sup>257</sup>		2
	i)	Vascular bundle are comprised of	of and				
	j)	Chloroplasts helps in	., and				
	257	257 257	257	257	257		2
Q.2		Answer the following:				(2x10)	
	a)	What is sol-gel theory of locomot	tion in amoeba?			(====,	
	b)	What role does the contractile va	cuole play in Amoeb	a?			
	c)	What is Ecdysis?					
	d)	Define annular rings of plant.	257	257	057		
	<b>e</b> )	Define phyllode. Give its example		237	257		
	f) g) h) i) j) <sub>257</sub>	Name the disease caused by Ast Define Phyllotaxy. What are the functions of Mitoch What do you mean by Rafting? What is Apolysis?		<b>5.</b> 257	257		2
		Part-B(Answ	er any Four question	ons)			
Q.3	a)	Explain the reproduction in amed				(10)	
	b)	Add a note on Entamoeba histoly				(5)	
Q.4	a)	Explain the structure and life cyc	le of Housefly.			(10)	
	<b>b</b> ) <sub>7</sub>	Distinguish between dicot stem a	and monocot stem.	257	257	(5)	2
Q.5.	a)	Explain briefly about the life cycle	e of Trypanosoma ga	ımbiense.		(12)	
	b)	Add a note on diseases caused I	by the different speci	es of this para	asite.	(3)	
Q.6	a)	What is mitosis? Give a brief not neat and labeled diagram.	e on the different sta	ges involved i	n it with a	(10)	2
	257	257 257	257	257	257		2

257		257	257	257	257	257	257		257
257	Q.7.		Add a note on the lifecy  Define tissue. Classify it		riefly about the o	different types of	257	(5) (2+8)	257
	Q.7.	b)	permanent tissues foun Write about the classific	d in the plant	t body.			(5)	
	Q.8	a)	What is venation? Give					(2+8)	
257	0.0	<b>b)</b> 7	venation. Add a note on the biolog		ance of Nucleic a	acid and vitamins.	257	(5)	257
257	Q.9	a) b) c) d)	Write notes on:-(Any to Solanacea family Lifecycle of silk worm Structure and functions Schizogony cycle in ma	of chloroplas		257	257	(5×3)	257
		e)	Stem modifications.						
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		BI	RAN	CH:	PH.	ARN	IAC	Y	257		257		25
				]	Full I	Mark	s-70							
			Q			: 3 H COE	ours DE: Y	745						
257	Answer Q	uestic	on No	.1 w	hich i	is con	npulse	ory an	id an	v five	from	the rest <sub>57</sub>		25
	T	he fig	gures	in the	e righ	ıt-haı	nd ma	rgin	indic	ate m	arks			
ŕ	swer the following	-				_	_					(2	2×10)	
•	What are the funct		•		nd Ph	loem	?							
<sup>25</sup> <b>b</b> )	Define the term Ph	•	•				257			257		257		25
c)	Name the causativ	_			nalari	a and	Filar	a.						
d)	What do you mean	•	•											
e)	What are digenetic	•				nples.								
f)	Write the types of		_				-162 m -	£4			,	257		25
<sup>25</sup> <b>g</b> )	What are the disea How osmoregulati			•		-		ıryp	anosc	mes !		231		23
h) i)	What are the funct					•	ice :							
j)	What is Pseudopoo		)1 1111W	ocnor	iuria									
J <i>)</i>	what is I seudopoo													
<b>2.</b> <sub>257</sub>	Explain the structu	ire an	d life	cycle	ofTr	ypano	soma 257	with	a nea	t labe	eled d	iagram?	(5+5)	25
3.	Write briefly abou	t the l	ifecy	ele of	mosc	quito?	•						(10)	
4. Wi	hat is venation? Giv	e a br	rief de	scrip	tion a	bout	the di	fferen	t type	es of v	venati	on.	(3+7)	
5.	Write short notes:												(5×2)	
257	a. Locomotion of a	amoel	<b>5</b> a 2	257			257			257		257		25

**b**. Mitotic cell division



Registration No:											l
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Total Number of Pages: 03

B.PHARM 15PH106

# 1<sup>st</sup> Semester Regular / Back Examination 2016-17 REMEDIAL MATHEMATICS

Time: 3 Hours

Max Marks: 100

Q.CODE: Y560

Answer Part-A which is compulsory and any four from Part-B.

The figures in the right hand margin indicate marks.

Part - A (Answer all the questions)

Q1 Answer the following questions: multiple type or dash fill up type (2 x 10)

- **b)** State the order of  $[a \ b \ c] = (1x3,3x1,2x1,1x2)$
- c) i) The median of the series 1, 3, 7, 10, 2, 4 is \_\_\_\_\_.
  - ii) The mode of the series 1, 2, 1, 3, 12,574, 1 is \_\_\_\_\_\_.
- d) If  $\cos\alpha = \frac{3}{5}$ ,  $\cos\beta = \frac{5}{13}$ ,  $0 < \alpha < \frac{\pi}{2}$ ,  $0 < \beta < \frac{\pi}{2}$ , the value of  $\sin(\alpha \beta) = \frac{(\frac{16}{65}, -\frac{16}{65}, \frac{56}{65}, -\frac{56}{65})}{(\frac{16}{65}, \frac{16}{65}, \frac{16}{65}, \frac{16}{65})}$
- e) The slope of the line joining the points (1,4) and 3,5) is .

$$\left(-\frac{1}{2}, \frac{1}{2}, \frac{2}{3}, \frac{-2}{3}\right)^{25/3}$$

The distance between the points (3,4) and (-2,1) is \_\_\_\_\_.

$$(\sqrt{33}, \sqrt{-34}, \sqrt{34}, \sqrt{32})$$

g) 
$$\lim_{x\to 3} \frac{x^2-9}{x-3} =$$
\_\_\_\_\_\_\_

- **h)** Find the differential coefficient of  $\sqrt{x}$  with respect to  $x^2$ .
- i)  $\int_0^{\frac{\pi}{4}} sec^2x dx =$ \_\_\_\_\_.(0,1,-1,2)
- **j)** Evaluate: \( \logxdx.

# Q2 Answer the following questions: Short answer type $(2 \times 10)$ a) Divide 57 into two parts whose product is 782. b) What is non-singular matrix and give one example? c) Define mode and give one example. d) Find the value of $\cos 75^{\circ}$ e) Find the value of a when the distance between the points (3,a) and (4,1) is $\sqrt{10}$ . Prove that the points (2, 5), (4, 6) and (8, 8) are collinear. g) Evaluate: $\lim_{x\to 0} \frac{1-\cos x}{x\sin x}$ h) Differentiate $e^{\tan x}$ with respect to sinx. Evaluate: $\int \frac{1}{\sqrt{x+a} + \sqrt{x+b}} dx$ Find the value of $\int_{-\pi}^{\pi} cosxdx$ Part - B (Answer any four questions) Solve by Cramer's rule the equations (8)3x+5y-7z=134x+y-12z=62x+9y-3z=20.**b)** Solve: $2x^4+9x^3+8x^2+9x+2=0$ **(7)** Find the inverse of the matrix $A = \begin{bmatrix} 2 & 3 & 4 \\ 4 & 3 & 1 \\ 1 & 2 & 4 \end{bmatrix}$ Q4 a) (8)Solve : $(x^2 + \frac{1}{x^2}) + 4(x + \frac{1}{x}) + 6 = 0$ , $x \ne 0$ . **(7)** Q5 Compute the mean, median and mode of the following (5+5+5)frequency distribution: 22-33 44-55 55-66 Class 0 - 1111-22 33-44 26 15 Frequency Q6 (5) Show that tan3A.tan2A.tanA=tan3A-tan2A-tanA

**b)** If tan(A+B) = x and tan(A-B) = y, find the values of

tan2A and tan2B

Prove that  $\frac{\sin A + \sin 3A + \sin 5A + \sin 7A}{\cos A + \cos 3A + \cos 5A + \cos 7A} = \tan 4A$ 

(5)

(5)

- Q7 a) Find the equations of the medians of a triangle ABC, (8) the co-ordinates of whose vertices are A(-1,6),B(-3,-9) and C(5,-8)
  - b) Find the equations of the altitudes of the triangle whose vertices are A(6,-1),B(-3,8) and C(3,2)
- Q8 a) Evaluate:  $\lim_{x\to 0} \frac{3^x 2^x}{tanx}$  (5)
  - **b)** Find  $\frac{dy}{dx} \inf_{257} y = x^2 \sin x + 2x \cos x 2\sin x$  (5)
  - c) Find  $\frac{dy}{dx}$  if  $y = x^x$  (5)
- Q9 a) Evaluate:  $\int \frac{x}{\sqrt{x+a}} dx$  (5)
  - **b)** Solve:  $\int e^x cosx dx$  257 257 257 (5)
  - c) Solve:  $\int \frac{5x-3}{(x+1)(x-3)} dx$  (5)

Total Number of Pages: 02

B.PHARM PH.1.13

# 1<sup>st</sup> Semester Back Examination 2016-17 REMEDIAL MATHEMATICS BRANCH: PHARMACY

Time: 3 Hours
Max Marks: 70

**Q.CODE: Y559** 

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

The figures in the right hand margin indicate marks.

Q1 Answer t	the following questions:	
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(2 x 10)

- a) Form the quadratic equation whose roots are  $1+\sqrt{3}$  and  $1-\sqrt{3}$
- b) What is singular matrix and give one example?
- c) Define arithmetic mean and give one example.
- **d)** Find the value of  $sin75^{\circ}$
- e) Find the area of triangle whose vertices are A(6,3),B(-3,5) and C(4,-2)
- f) Determine the equation of a line passing through the point (-4,-7) and parallel to x-axis.

**g)** Find 
$$\lim_{x\to 2} \frac{(x^4-16)}{(x-2)}$$

**h)** Find 
$$\frac{dy}{dx}$$
 if  $y = (3 - x^2)(x^3 - x + 1)$ 

i) Evaluate: 
$$\int \frac{1}{\sqrt{x+a+\sqrt{x+b}}} dx$$

**j)** Evaluate: 
$$\int_{1}^{2} \frac{1}{x} dx$$

**b)** Solve:
$$x - 2\sqrt{x}$$
-6=0 (5)

**b)** Solve: 
$$9x^4 + 20 = 29x^2$$

(5)

(5)

1	1	n	١	
•		v		

Class	0-11	11-22	22-33	33-44	44-55	55-66
Frequency	9	25717	28 257	26	15	8 257

Q5 a) Prove that: (1+cotA-cosecA)(1+tanA+secA)=2

(5)

**b)** Show that :  $\frac{tanA + tanB}{tanA - tanB} = \frac{{257 \over \sin (A + B)}}{{\sin (A - B)}}$ 

- (5)
- **Q6 a)** Prove that the points A (1,-2), B (3, 6), C (5, 10) and D (3, 2) are the vertices of a parallelogram. **(5)** 
  - **b)** Four points A(6,3),B(-3,5),C(4,-2) and D(x,3x) are given in such a way that  $\frac{Area\ of\ triangle\ DBC}{Area\ of\ Triangle\ ABC} = \frac{1}{2}$ ,  $find\ x$ .
- **Q7** a) Evaluate:  $\lim_{x\to 0} \frac{2^x 1}{(1+x)^{\frac{1}{2}} 1}$  (5)
  - **b)** Find  $\frac{dy}{dx}$  if  $y = (cosx)^{cosx}$  (5)
- **Q8** a) Evaluate:  $\int \frac{e^x \sin x}{e^x + \cos x} dx$  (5)
  - **b)** Solve:  $\int \frac{6x+7}{(x+2)^2} dx$  (5)

Total Number of Pages: 2

B.PHARM PH 1 9

# 1<sup>st</sup> Semester Back Examination 2016-17 PHARMACOGNOSY- I

(According to Old Syllabus)
BRANCH: B.PHARM

Time: 3 Hours Max Marks: 70 Q.CODE: Y762

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

The figures in the right hand margin indicate marks.

Q1	a)	Answer the following questions: Give the biological source and uses of Isabgol and Honey.	(2 x 10)	2
	b) c) d)	Define Stomatal number and Stomatal index. What do you mean by Plant tissue culture? What is Sophistication and Substitution?		
257	e) f) g) h)	What are secondary metabolites? Write the important chemical constituents of Agar and Pectin. Define Polyploidy.  Name four important natural pesticides.		2
	i) j)	What are various functions of Auxins?  Name two important anticancer drugs obtained from marine source.  Write notes on:		
Q2	a)	Physical evaluation of crude drugs.	(5)	
257	b)	Define drug evaluation and differentiate organized and unorganized crude drugs.	(5)	25
Q3	a) b)	Write notes on the followings: Different types of adulterants. Mutation and Hybridization in medicinal plants.	(5) (5)	
<b>Q4</b> <sub>257</sub>		Define crude drugs. What are various types of crude drug classification? Discuss in detail about pharmacological method of crude drug classification.	(10)	2
Q5	a)	Write a brief note on Glycosides.	(5)	
	b)	Write the biological source, chemical constituents and uses of Starch and Wool fat.	(5)	