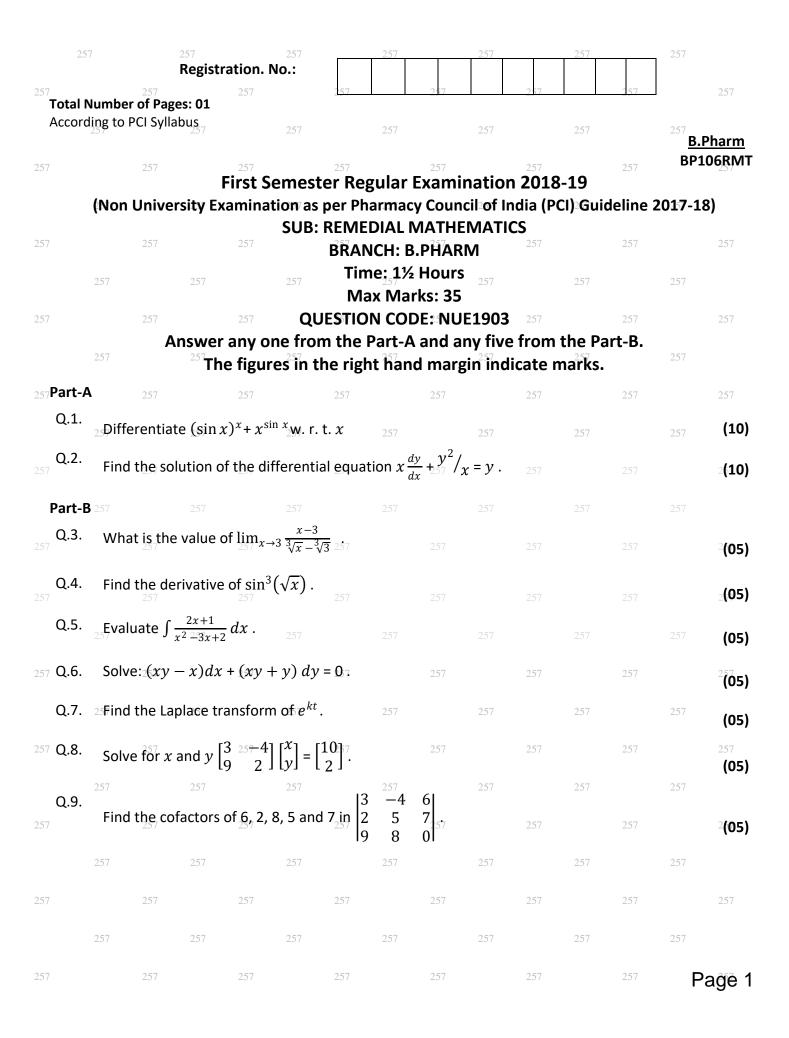
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57	A	257 nsw	₂₅₇ 1 st Ser H er Question No.1 (P	UMAN A	NATO BRAN Tin Ma: Q.O	OMY A CH: ne:3 x Ma CODE	AND B.Ph B Hou rks : E : E9 -B) w	PHYS arma rs 75 07	IOLO	GYI		257 nd any tw	BP101T 257 To from
57		257	²The figι	ures in th	ne righ			argin	indica	ate ma	arks.	257	257
	Q1	a) b) c) d)	Objective Answer Ty Outline levels of struct Define anatomy and p Differentiate anterior a What is hemostasis.	tural orgar hysiology	nizatior '.		er All		ns.				(2 x 10)
57		e) f) g) h) i)	Classify bones. How many vertebrae what is anaemia. Which blood vessel can what is lymph? What do you mean by	arries bloo	the lur	heart	t to lur		jion?	257		257	257
57	Q2	257 a) b) c) d) e) f)	Focused-Short Answ Discuss blood groupin Elaborately Classify to Outline different steps Draw structure of a ty Make a brief note on e Briefly discuss on the	ng. ssue syste of erythro pical cell v ear. origin and	em of b opoiesis vith pro	oody. s. oper la	(Ans abelin	g. al nerv		/en)		257	(5 x 7) ²⁵⁷
57		g) h) i)	What is a skeleton, when what are different fun Make a brief note on p	ctions of	ymph.		257			257		257	257
	Q3		Long Answer Type C Discuss in detail on co				ny Tv						(10)
57	Q4	257	Write a note on the st	ructure of	heart v	vith he	elp of	a neat	and la	beled	diagran	n. ₂₅₇	(10) 257
	Q5	201	Write structure and fu	nction of ly	ymph n	ode?	201					201	(10)
	Q6		Describe structure and	d functions	s of diff	ferent	types	of epi	ithelial	tissue			(10)
57		257	257	257	7		257			257		257	257

Registration No: **B.Pharm** Total Number of Pages: 01 **BP102T** 1st Semester Regular / Back Examination 2018-19 PHARMACEUTICAL ANALYSIS I **BRANCH: B.Pharma** Time: 3 Hours Max Marks: 75 **Q.CODE: E952** Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from Part-C. The figures in the right hand margin indicate marks. Part- A Q1 Objective Answer Type Questions (Answer All) (2 x 10) Define pharmaceutical analysis and give its scope. Define pharmacopoeia. What are different types of pharmacopoeias? b) What is universal indicator? Write its components. C) d) Give pharmaceutical applications of non-aqueous titrations. e) What is a buffer solution? Give two examples of it. Name the indicators used in Fajan's method for titration of halides against silver nitrate. What do you mean by Primary and secondary standards in chemical analysis. g) What do you understand by Co-precipitation? h) Write about advantages and disadvantages of diazotization reaction. i) i) What do you understand by standard hydrogen electrode? Focused-Short Answer Type Questions- (Answer Any Seven) Q2 (5 x 7)₂₅₇ Classify errors in pharmaceutical analysis. a) How you will prepare and standardize 0.5 M Sulphuric acid? b) Define limit test. Write in brief about limit test for Sulphate. Discuss in brief about Oswald's theory of acid-base indicators. Explain the assay procedure of Ephedrine Hydrochloride. e) f) Differentiate between Mohr's method and Volhard's method. State different types of EDTA titration with suitable examples. g) What is gravimetric analysis? Discuss in details about principle involved in it. h) i) Write the principle and applications of 'Polarography'. Part-C Long Answer Type Questions (Answer Any Two) Q3 Discuss in brief about different techniques involved in pharmaceutical analysis. (10)Q4 Explain non-aqueous titration. Discuss about various types of solvents and indicators (10)used in non-aqueous titrations. Q5 What are various types of conductivity cells? Why is the platinization of electrodes (10)done? Q6 (10)Write in brief about basic principle, theory, types and applications of diazotization

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7	Tota	al Nu	umber of Pages : 01 257 1 st Ser	nester R					257 018-19		0 ==	Pharm P103T	257
7	An	swe	er⊵Question No.1∉(Par	E	BRANC Time Max Q CC I 02 (Pa	H : B. e : 3 H Marks DDE :	s : 75 E988 which a		oulsory	and a	ANY TWO	from	257
			The figu	res in th				indicate	e mark	s.			
					ı	Part- A	\						
	Q1	Ob a)	jective Answer Type Q Define a prescription.	uestions	(Answe	er All)					((2×10)	
7		b) c) d)	What do you mean by What is the definition of What are the roles of g	f elixirs?	257	ants?	257		257		257		257
		e) f) g)	What do you mean by What are pastilles? What are uses of poult		el effect?	•							
		h) i) j)	What do you mean by What is posology? What is Young's formu										
7			257 257		257	Part- B	257		257		257		257
	Q2	Fo	cused-Short Answer T	ype Ques				EVEN)				(5×7)	
		a) b) c) d)	What are the common Briefly describe in step Briefly discuss the vari How will you dispense i) Powders conta	errors in a s about the ous types the follow	a prescri ne develo of physi ving pow	iption? opmen ical ind ders?	nt of India compatibi	n Pharm				` ,	
7		e) f) g) h) i)	ii) Powders conta Write importance of red Discuss tests for identi Explain the different m Classify different types Inscription and subscri	ill instruct fication of ethods for of mixtur	tion and f emulsic r the pre es.	endors ons. paratio	on of ointi		257 ptions.		257		257
					ı	Part-C							
7	Q3		Long Answer Type Q Describe the Soxhlet a					action tal	257 king plac	ce in it.	257	(10)	257
	Q4		Define aromatic waters	s. Explain	the diffe	erent m	ethods fo	or prepar	ing aron	natic w	aters.	(10)	
	Q5		What is geometric dilu	ion. Expl	ain with s	suitable	e exampl	e.				(10)	
	Q6		Explain the term tolera	ted and a	djusted i	incomp	oatibilities	3.				(10)	
7			257 257		257		257		257		257		257

7		257	257	257	257		257	257	257
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7		257				ANIC Cl narma ırs 75		257	257
	Aı	ารพ	er Question No.1 (I		2 (Part-B) wl		compulsory	and any TW	O from
7		257	₂ The fig	gures in the r	Part-C. right hand ₂ m	argin in	ndicate, marks	257	257
					Part- A				
	Q1	a) b) c) d)	Objective Answer Write down the prince Define astringent and Define buffer capacity Write down the synce	ciple of Limit tes d give example ty and isotonic	s (Answer Al at for chloride. a of two inorga solution.	nic astrin	gent.		(2 x 10)
7		e) f) g) h) i)	Define dentifrices ar Define expectorants What is half life of a	nd anticaries ag and give two e radioactive ma ne 1 st I.P. was p te down the che	ent and give on xamples. terial? Give its sublished? emical formula	one exam signification of blue v	nnce.	257 justify it.	257
7	Q2	257 a) b) c) d)	Focused-Short Ans Define buffers. Write Define cathartics. Cl Write down notes or Write down notes or	e down the appl assify it and me antidotes. an ORS.	ications of but ention the mor	wer Any fers.	•	257	(5 x 7) 257
7		e) f)/ g) h) i)	Write the principle o Write down notes or Define haematinics. Write down the prop Describe the role of	n lodine and its Write down the erties of $α$, $β$, $γ$	preparation ₅₇ monograph o radiations.	of Ferrous	²⁵⁷ s Sulphate.	257	257
					Part-C				
7	Q3	257	Long Answer Type Give a detail note of applications of radio	n the construct	nswer Any Tw tion and worki	•	M counter. Disc	cuss various	(10) 257
	Q4		Define and classify antacids. Write down					cteristics of	(10)
	Q5		Write down the m				l agents. Write	e down the	(10)
7	Q6	257	Describe in detail ab	oout the limit tes	st for Arsenic v	vith a nea	at labeled diagra	am. ²⁵⁷	(10) 257



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•		0. (4 -	•	. ,,	Par	-						(040)
Q1	۵)	Short Answer Ty Define dosage for		ions (An	swer A	M-10)						(2 x 10)
	a) b)	What do you mea		loav								
	c)	Define Suspensio		257		257			257	2	257	25
	d)	Define Suppositor										
	e)	What do you mea		vescent p	owder							
	f)	Define prescriptio		•								
	g)	What do you mea		atic wate	r							
	h)	Define emulsion										
	i)	What do you mea		npatibilitie	es							
	j)	What is nasal dro	ps									
	257	257		257	Dow	257			257	2	257	25
Q2		Focused-Short A	newar Ty	na Ouas	Part		war A	ny Fiat	at out	of Twolve)		(6 x 8)
Q _	a)	How would you pi						iiy Ligi	it out	01 1 110110,		(0 X 0)
	b)	What do you mea										
	c)	Discuss important										
	d)	Write Pharmaceu										
	e)	Discuss different			ms							
	2F) 7	Discuss career in	,			257			257	2	257	25
	g)	Write ten latintern			ion							
	h)	How would you di What do you man			linical	nharm	201					
	i) j)	Write about Chop	•	•			-					
	k)	Discuss different			mmile	C 1950	,					
	I)	How would you pi			3							
	257	257		257	Part	t-II <u>}</u> 57			257	2	257	25
		Long Answer Ty			wer A	ny Tw	o out	of Fou	ır)			
		Write history of ph	narmacy in	India								(16)
Q3		Describe a formul	a and met	hod of pro	eparatio	on of c	ream					(16)
		Describe a formul	a and met									
Q3 Q4 Q5		Discuss different		nulsion ,a	and hov	v to pr	epare	emulsi	on			(16)

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7		1 st Semester Back Examination 2018-19 INORGANIC PHARM CHEMISTRY BRANCH: B.Pharma Time: 3 Hours Max Marks: 100 Q.CODE: E998	257
	An	swer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and a from Part-III.	iny TWO
7		The figures in the right hand margin indicate marks.	257
		Part- I	
	Q1	 Short Answer Type Questions (Answer All-10) a) What is Epsom salt? Mention its uses. b) What is blue vitriol? Give its uses. c) Define buffer capacity and composition of buffer solution. d) What is barium meal? Give its uses. 	(2 x 10)
7		 e)₂₅Write down the principle of Limit test for Chloride₂₅₇ f) Define astringent and give example of two inorganic astringent. g) What is the role of lead acetate cotton in the limit test for arsenic? h) What is I.P., when the 1st I.P. was published? i) What is Lugol's solution? Mention its use. j) What are dentifrices? Give two examples of dentifrices. 	257
7	Q2	Part-II Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) Name the electrolytes used in replacement therapy and Write down notes on ORS. b) Define cathartics. Classify it and mention the monograph of MgSo ₄ . c) Write down notes on antidotes. d) Define buffers. Write down the applications of buffers. e) Write down the function of major physiological ions. f) Write down notes on lodine and its preparation.	(6 x 8) ₂₅₇
7		 g) Define haematinics. Write down the monograph of Ferrous sulphate. h) Write down the limit test for Iron, i) Write down the role of fluorides in dental care. j) Write down different theories of acid and base with examples. k) Write notes on pharmaceutical aids used in pharmaceutical industry. l) Write down the hazards of radio pharmaceuticals and precaution for its. 	257
		Part-III	
7	Q3	Long Answer Type Questions (Answer Any Two out of Four) Define Antacid, classify it with suitable examples. Write down the ideal characteristics of antacid and mention the monograph of any two inorganic antacid.	(16) 257
	Q4	Write down the properties of α , β and Υ rays. Give a detail note on the construction and working of G-M counter. Discuss various applications of radio pharmaceuticals.	(16)
	Q5	Write down the mechanism action of antimicrobial agents. Write down the monograph of Hydrogen peroxide and Chlorinated lime.	(16)
7	Q6	Write down various effects of impurities. Describe in detail, the limit test for arsenic with a neat leveled diagram.	(16) 257

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7	1018	257	HAP - I BRANCH : B.Pharma	B.Pharm 15PH103 ₂₅₇
	An	swe	Time : 3 Hours Max Marks : 100 Q.CODE : E906 r Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II a	and any TWO
7		257	C	57 257
	Q1	a) b)	Part- I Short Answer Type Questions (Answer All-10) Define anatomy and physiology Define cell and tissue	(2 x 10)
7		c) d) e) f) g) h) i)	What do you mean by gross anatomy? Which organelle of cell is termed as power house of the cell? 257 What is normal haemoglobin content of a healthy male? What do you mean by haemopoiesis? What is the basic difference between lymph and plasma Mention the anatomical position of spleen. What is myocardial infarction? Define anatomical position of body.	57 257
7	Q2	a) b) c) d) e)	Focused-Short Answer Type Questions (Answer Any Eight out of Twelve) Discuss on grouping of blood. Write a note on thoracic cage. Discuss on various types of movements of synovial joint. Make a note on the formation and circulation of lymph. What do you mean by cardiac cycle, discuss in detail.	(6 x 8) 257
7		f) g) h) i) k) l)	Discuss in detail about the functions of skeleton. Write the structure and function of lymph node 57 Make an outline of mechanism of blood coagulation Describe cell structure with help of a neat and labeled diagram. Discuss in brief on hypertension. Classify different types of joints of body with proper example and description Write anatomy and physiology of thymus gland	57 257
7	Q3	257	Part-III Long Answer Type Questions (Answer Any Two out of Four) Write composition and functions of blood.	⁵⁷ (16) ²⁵⁷
	Q4		Write anatomy of skeletal muscle and physiology of muscle contraction.	(16)
	Q5		Write structure and function of heart.	(16)
	Q6		Discuss on the elementary tissues of the human body	(16)
57		257	257 257 257 2	57 257

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		1116 1	igures in the rig	iit iiaiid iiiaigi	III IIIGI	cate mai	NS.	
				Part- I				
Q1		Short Answer Ty	pe Questions (Ans	swer All-10)				(2 x 10)
	a)	She said, "I'll be us	sing the car next Fr	iday." [report the	e stater	ment]		
	b)	You are waiting fo	r your friend. [char	ige into passive]]			
	₂ c)	If you stopped talk	ing, I ₂₅ get so	me work done [d	can, wo	ould ₅ might	257	
	d)	Write two words to	indicate consonar	t cluster				
	e)	Diaper, Fries [pro	vide the British alte	rnatives of the g	given w	ords]		
	f)	Would you like tea	? or coffee? [indic	ate the correct in	ntonatio	on]		
	g)	Write two words th	nat carry a diphthoi	ng sound				
	h)	She's lived there _	seven years. (use suitable pre	positio	n to fill the	blank)	
	i) 257	He loved to read e	very night before s	leeping."[state tl	he type	of verb u	sed] ₂₅₇	
	j)	He got top grade i	n the math test. (Ad	ld a question taલ	g)			
				Part- II				
Q2		Focused-Short A	nswer Type Ques	tions- (Answer	r Any E	ight out o	of Twelve)	(6 x 8)
	a)	Dark cloud certain to stress shift]	ly doesn't predict h	leavy rain [exp	olain the	e change	in meaning due	
	ъ)	Call for, look out, the meaning]	Fall in, Give up, R	un into, Wear o	off [use	in senter	nces to explain	
	c)	Compare and conf	trast between filter	s and barriers				
	d)	Explain, photograpstress]	pher, reasonable [make syllable o	division	and iden	tify the primary	
	e)	Why information communication?	0.57	0.57	as a			
	⁴f)	What is concord?	Explain with examp	ole ²⁵⁷		257	257	
	g)	age, soup, hurt, e words]	examination, top, z	oo,[make phor	nemic 1	transcription	on of the given	
	h)	Briefly sketch the	procedures of audie	ence analysis.				
	i)	·	I state its relationsh	•				
	j)	•	entiate between the					
	1-1	State the context w						
	₂k) Ⅱ)		when falling _e tone is een sign language a		_	ione.7	257	

Part-III Long Answer Type Questions (Answer Any Two out of Four) Q3 Verbal communications often lead to be ineffective in absence of nonverbal (16)components. Justify the statement with your argument on the importance of Nonverbal communication Q4 What are the stages of communication process? Explain other connected factors that (16)influence communication. Q5 Make a comparative study of communication through vernacular and through English (16)as a second language and state why communication in English is important now a day? Q6 Instruction: Read the passage below and correct the errors in the passage. (16)My stepmother is the 1) jenealogist of the family. She maintains records of births, deaths, marriages, and divorces. She takes the job 2) real serious. She sends missives to the family 3) whoever something noteworthy occurs. We recently had a bulletin about 4) the demise of the relative during the Civil War- which transpired a century-and-a-half ago. This ancestor apparently bequeathed his old earthly possessions (some 5) beautiful and antique furniture) to his progeny, who in turn bequeathed their goods to their descendants. My husband's great-grandfather, 6) his mother's father, has recently inherited some of this 7) beautiful antique furniture. My husband wonders if he will one day pass heirlooms on to his progeny. 8) If yes, we may inherit some new furniture, and my stepmother will have even more to keep track of! a) A. genealogist **B.** jeneologist C. genealegist D. Correct as is b) A. very serious. **B**. real seriously. C. really serious. **D**. very seriously. E. Correct as is A. whether B. whenever C) C. whatever Both A and C are correct E. Both A and B are correct d) A. a demise of the relative the demise of a relative C. a relative's demise Both B and C are correct E. Both A and B are correct B. beautiful antique A. beáutiful, but antique C. beautiful or antique **D**. Correct as is A. his mother's father's father, f) **B**. the father of his father's father. C. the mother of his father's father, Both A and B could be correct A. pedestrian B. dynamic g) C. deleterious antiquated E. exquisite h) A. If so, **B**. If not, C. This way, **D**. If true, E. Correct as is

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57		257	2 Th	e figures		rom Pa ht han		n indica	te marks	257	257
	Q1	a) b) c)	Short Answer What are living Difference betw What are the fu	organisms′ een plant a	? ind animal						(2 x 10)
7		d) e) f) g) h) i)	Name the disea Write function o Write function o Why lysosomes Write about Fas Define the term Difference betw	f chloroplas f mitochono is called a siola. venation.	st. ²⁵⁷ dria. s suicidal b	ags?	257		257	257	257
57	Q2	257 a) b) c) d) e) f)	Focused-Short Write short note Add notes on E Distinguish betw What are the fu Write biological Add notes on the	es on modif ntamoeba. veen xylem nctions of r significanc e lifecycle	ication of s and phloe nitochondri e of carbor of mites.	tems. m. ia? nydrate	(Answer	nins.		welve):57	(6 x 8) 257
7		g) h) i) j) k) l)	Write notes on p Explain classific Write short note Distinguish betwood Discuss about t Write biological	ation of pla s on Tissu veen mitos he asexual	ant kingdon e. is and meic life cycle c	n. osis. of <i>Plasn</i>	257 nodium.		nilies. 257	257	257
_	Q3		Long Answer				ny Two o			arams	(16) ₂₅₇
) (Q4	257	What is cell divi						25/10 01 414.5	257	(16) ₂₅₇
	Q5		Write structure	and life hist	tory of Amo	eba					(16)
	Q6		Describe genera	al structure	and life his	story of	silk worn	١.			(16)
7		257	257		257		257	2	257	257	257

Part-III

Long Answer Type Questions (Answer Any Two out of Four)

Q3	Find $adj A$ and A^{-1} , Where A = 3	4	$\begin{bmatrix} -1 \\ 5 \\ -7 \end{bmatrix}$, Also verify $A(adj A) = (adj A)A$	(16)
	Lo	- 6	_7]	

Q4 ₂Find the mean median and mode from the following data: ₂₅₇ ₂₅₇ (16) ₂₅₇

Wages (in Rs.)	20-30	30-40	40-50	50-60	60-70
No.of labourers	4	5	20	10	4

What is the slope point and two point form of a line? Find the equations of the medians of a triangle ABC, the co-ordinates of whose vertices are A (-1, 6), B (-3,-9) and C (5,-8).

Q6 What is partial fraction and Evaluate: $\int \frac{(-2x+4)}{(x^2+1)(x-1)^2} dx$ (16)

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