**Registration No: B.Pharma Total Number of Pages: 01** BP101T 1<sup>st</sup> Semester Regular/Back Examination 2019-20 **HUMAN ANATOMY AND PHYSIOLOGY I BRANCH**: B.Pharma Max Marks: 75 Time: 3 Hours Q.CODE: HRB559 Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from 257 Part-C. The figures in the right hand margin indicate marks. Part-A Q1 Only Short Answer Type Questions (Answer All-10)  $(2 \times 10)$ a) Define homeostasis with an example. Write the structure and functions of plasma membrane. b) Write different types of WBC and their functions? C) d) What is cardiac output? What are the antigens and antibodies present in A<sup>+</sup> blood group? e) What is Electrocardiogram? f) What is hypertension? g) Definepronation and supination? h) What is erythropoiesis? i) Name the neurotransmitters released from preganglionic and postganglionic j) sympathetic nerve endings. 257 Part-B Q2 Only Focused-Short Answer Type Questions- (Answer Any FIVE out of SEVEN)  $(5 \times 7)$ Define and classify tissue. Write detail notes on epithelial tissue. a) b) Write the principles of cell communication. c) Write the structure and functions of skin. d) Discuss in details about the neuromuscular junction. e) Classify different types of bone joint. Explain briefly on synovial joints. f) Write notes on cardiac cycle? g) Write the origin and functions of cranial nerves. Write the detail mechanisms of blood coagulation. h) i) Write the structure and functions of human eye. Part-C Only Long Answer Type Questions (Answer Any TWO out of FOUR) Q3 Discuss the human cell with neat and labeled diagram. Explain briefly the structure **(10)** <sub>257</sub> and functions of different cell organelles.

With neat and labeled diagram describe the anatomy and physiology of human heart. (10) Write notes on cardiac output.

Q5 Define lymph. Write detail about lymphatic system. Add a note on the functions of spleen. (10)

Write the classification and functions of peripheral nervous system. Discuss about sympathetic and parasympathetic nervous system.

**Registration No: B.Pharm Total Number of Pages: 01** BP102T 1<sup>st</sup> Semester Regular/Back Examination 2019-20 PHARMACEUTICAL ANALYSIS I **BRANCH**: B.Pharma Max Marks: 75 Time: 3 Hours Q.CODE: HRB628 Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from 257 Part-C. The figures in the right hand margin indicate marks. Part-A Q1 Only Short Answer Type Questions (Answer All-10)  $(2 \times 10)$ a) State Acid and Base according to Bronsted-Lowry Theorem with examples. b) Why nitrobenzene is used in precipitation titration? C) Define titrant and titrand. d) What is self indicator? Give an example of it. Give examples of masking and demasking agent. e) Differentiate between qualitative and quantitative analysis. f) g) State Equivalent conductivity. h) Why acetic anhydride is used for preparation of 0.1N perchloric acid? i) Calculate the pH of 100 ml of 0.1 N Hydrochloric acid. j) How to calculate percentage of analyte in gravimetric analysis. Part-B Q2 Only Focused-Short Answer Type Questions- (Answer Any SEVEN out of NINE) Illustrate iodimetric titration for iodine. a) Prepare and standardize 0.1 N Sodium Hydroxide solution. b) Explain Ostwald theory of acidic and basic indicators. C) d) Discuss different types solvents used in Non-aqueous titration. e) Write principle and applications of Diazotization titration. **f**)7 Describe the principle behind Mohr's method of precipitation titration. Explain the various types of EDTA titrations. g) h) Give the design and working of glass electrode. Write in brief about limit test for chlorides. i) Part-C Only Long Answer Type Questions (Answer Any TWO out of FOUR) Q3 Define Errors. Classify it. Discuss the methods to minimize the error. (10)(10)Q4 Discuss the different types of conductometric titrations involved in pharmaceutical analysis. Mention its advantages and disadvantages.

Explain the construction and working of dropping mercury electrode with neat labeled

Describe the neutralization curve of Strong acid when titrated against strong base.

(10)

(10)

Q5

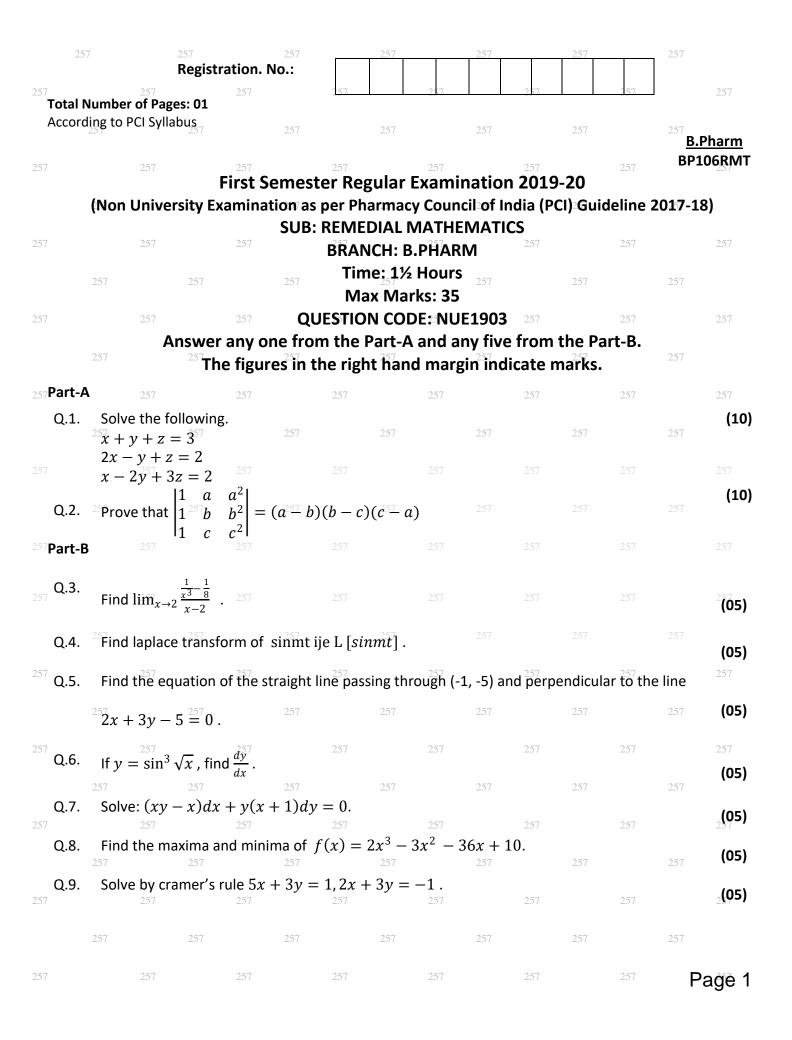
Q6

diagram.

Mention its significance.

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7	Tota	al <b>Nu</b> 257	mber of Pages : 01	257		257	257		257	B.Pharm BP103T <sup>57</sup>
7	Aı	nswe	1 <sup>st</sup> Se er Question≀No.1 (Pa	P BF	HARMAC RANCH: Max Ma Time: 3 Q.CODE: 02 (Part-E	EUTICS B.Pharm rks: 75 Hours HRB707 3) which	na ,		l any TW	
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	Q1	a)	Only Short Answer How you can calculate	e child dose	according	wer All-10 to dilling	s formula?			(2 x 10)
7		b) d) e) f) g) h)	Why clicking sound is Name the two reason Write down the comp Convert 50% alcohol Name the emulsion is What is tablet triturate Why tetracycline is no Give two examples of the Name the the N	s responsible osition of fle control	le for phys exible colloon on to proof tests.	ical incom dions. spirit. nerapeutic	patibility.257 use?		257	257
7		<b>j)</b> 257	What is compound tra	agacantn? 257	D	257	257		257	257
7	Q2	a) b) c) d) e) f) g) h)	Only Focused-Shore Explain the various so Discuss the stability pullustrate the evaluate Differentiate between Draw a typical format Calculate the quantity 50% v/v alcohol. Differentiate between Discuss the formulating 15 kg weighing child is 500mg, then what different formulae.	olubility enhanced or of Ointmoners of Suspension of Prescription of 40% v/v  Ointment and procedure of 5 years agone of the suspension of	ancement the emulsion ent. In and emulsion and mediand 70% and 70% and Cream the eliminge is to be child dose	sions- (An techniques sion ention the v/v5alcoho xir treated w e? Compa	importance of are require	of its each ped to make	oart 200∂ml o adult dose	e
7	02	257	Only Long Answer			wer Any 1			257	257
	Q3 Q4		What is posology? M Classify 'Incompatible remedy.			•			bility' with	(10) n (10)
	Q5		What are semisolid d	osage forms	? Write in	detail abo	ut Supposito	ories.		(10)
7	Q6	257	Define powder, class	ify it and brie	efly discuss	257 s it.	257		257	<b>(10)</b> 257

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7		257	<sup>2</sup> The fig	ıres	in²the	_	art-C. and²		gin iı	ndicat	e marks	257	257
	Q1	a) b)	Only Short Answer Why 20% citric acid is What is blue vitriol?	s add Vrite	led in lir its form	ions (A mit test t ula and	or iro	n?	10)				(2 x 10)
7		c) d) e) f) g) h)	Mention the methods Define anti-microbial What is universal Ant Define haematinics. N What is lugol's solution Mention the effects o	agen idote Name on? M	ts with some its with some its second to the off dention	suitable its formu icial con its uses	exam ula. 2 npour	nples 57 nds of	f iron	used a	57 Is haema	257 tinics.	257
7	Q2	i) j)	Name the techniques What is half life of a r  Only Focused-Shor	useo adioa	d for the active m	measu naterial?	reme Ment	nt of t	radio s sigi	activity nificand	e.	out of NINE)	<b>(7 x 5)</b> 257
		a) b) c) d)	Discuss about the dif Mention the ideal cha hydroxide gel. Define expectorants. any one inorganic ex Classify dental produ Fluoride.	feren aracte Men pecto	t source eristics tion its erant.	es of importants	ouritie cids. V nism (	es fou Write of act	nd in dowr	pharm n the m Write d	aceutical onograph own the	l substances. h of Aluminun monograph c	n f
7		e) f) g) h)	Write a note on emet Give the preparation, Write the assay of So Mention the sources preparation and prop Define expectorants. monograph of Ammo	prop dium defi erties Give	chlorid ciency Ferrou the m	le and C conditio is sulpha echanis	of H coppe n, an ate.	r sulp d tox	hate icity	of iron	in the bo	ody. Write the	
7	Q3	257	Only Long Answer Describe in detail the	• •		ions (Ar		r Any			•	257	257 <b>(10)</b>
	Q4		Define and classify Write the preparation						entio	n their	Mechan	ism of action	
7	Q5	257	Describe the construction of radio pharmaceutic		and wo	orking of		cour	iter. I		importai	nt application	s <b>(10)</b>
	Q6		Define antidotes. Cla how cyanide poison a								sm of ac	tions. Explain	, <b>(10)</b>



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	An	swe	Question No.1	(Part-1) w	hich is co		ry, any l	EIGHT from	Part-II and any	/ TWO		
7		257	<sub>2</sub> <b>T</b> he	figures in		m Part-III hand <sub>2</sub> ma		dicate marks	257	257		
	Q1	a) b) c)	Part-I Only Short Answer Type Questions (Answer All-10) What is calamine? Give its uses. Define universal Antidote? Give the formula. Mention the units of radio activity.									
7		d) e) f) g) h) i)	Explain the role o Write any two effer Mention the stora Why dilute HCl is What is barium m Why ammonia an Define buffer capa	ects of impuge and used in the eal? Give it does not a section of the eal?	rities in ph s of laughi limit test f s use. n cyanide a	armaceuti ng gas. or sulphat are used ir	cal subst e? n the limi	231	257 / metals?	257		
7	Q2	257 <b>a)</b>	Only Focused-S Write a note on va	arious types	of water I	isted in I.P		257	257	(6 x 8) <sub>257</sub>		
		b) c) d) e) f)	Classify topical ac Write the principle Define expectora monograph of any Write down the ap Illustrate notes or	of limit tes nts. Give the one inorgation of oplication of lodine and	t for Iron. ne mechar anic expec buffers in its prepar	ism of actorant. pharmacyation.	tion of e	expectorants. \	· ·			
7		g) h) i) j) k) l)	Give notes on pha Classify cathartics Write down the m Define cough? Ex Define haematinion Write down differen	s basing on onograph s plain the m cs. Write do	their mech ilver nitrite ode of acti wn the mo	nanism of a & hydrogo on of Eme nograph o	action wi en perox tics. f Ferrous	th suitable exa ide. s sulphate.	imples. <sup>257</sup>	257		
						Part-III						
7	Q3	257	Only Long Answ What is an antaci the monograph of	d? Classify	it.7Write do				n antacid. Write	<b>(16)</b> <sup>257</sup>		
	Q4		Explain in details replacement thera						olytes used for	(16)		
7	Q5	257	Describe various neat labelled diag	ram.	mpurities.	Discuss in	detail th	ne limit test for	arsenic with a	<b>(16)</b>		
	Q6	~~!	Define the term examples. Write Describe the role	Abrasive a	ınd Dentifi monograpl	rice. Class n of Sodiu		dental produc	t with suitable	(16)		

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	257	<sup>257</sup> The fig	257	257	indicate marks.	257	257						
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Q1		Only Short Anower	Tyma Oyaatiana	Part-I			(2 x 10)						
J.I	a)	<ul><li>a) State what is the last step in a single cycle of communication?</li><li>b) What is the regional variety of a language called in English?</li></ul>											
	-												
	c)	Define the term "filtering" as found in communication.											
	d) e)	Write the IPA symbol for the sound heard at the beginning of the word "Chat"  Define a transitive verb with an example.											
	f)	What do you mean by decoding?											
	g)	Which form of the verb is used to refer to Past happening-related to-Present time?											
	h)	Define what is nucleus in tone of voice. In a sentence "He would wait for me for hours", what meaning does "would" express?											
	i) j)	Write the phonetic tra				ı express?							
	0.55	0.57	0.57	Part-II	0.57	0.57	0.55						
<b>Q2</b>	257	Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6											
	a) b)	What is face-to-face communication? Justify why it is important.  How is a vowel sound different from a consonant sound? Make a list of all short vowels											
	,	using IPA symbols with examples in words											
	c)	What is Phonemic transcription? Transcribe the following words phonetically Thank,people,world,about,judge,computer											
	d)	There is no one-to-c			e and tense in End	glish. Explain							
	,	with examples.	·										
	<b>e</b> )	Some verbs are norm				verbs called?	257						
	f)	Make a list of such verbs and use some of them in sentences.  What is a conditional sentence? Explain different types of conditional sentences with											
	,	examples.											
	g)	What is stress? Analyze stress variation with examples. What is a modal verb? Discuss with illustration the meanings expressed by different											
	h)	modals.	D! DISCUSS WITH	ilustration the n	learlings expressed	a by dillelelit							
	i)	Analyzing the Purpose and Audience before a communication helps getting effective											
	257	results. Explain. Explain contrastive si	257	257	257	257	257						
	j) k)	Distinguish and briefl		•		ınication.							
	I)	Explain the features											
		communication											
	257	257	257	257	257	257	257						

257	25	/	257	257	257	257	257	257
	Q3	What is IPA	in English Pron		er Any Two out ss in details the	<b>of Four)</b> guidelines set for		
257	Q4 <sup>25</sup>	rne attitude				e way intonation ling tone and Ris	is used. (16 ing tone	257
	Q5	Define comi communicat		uss in details th	e features of Bo	dy Language in		
257	<b>Q6</b>	Discuss the	barriers to comn <sup>257</sup>	nunication and th	e ways to deal w <sup>257</sup>	ith such barriers.	257 (16	257
257	25	7 2	257	257	257	257	257	257
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257		u.c tion No.1 which is figures in the righ	compulsory a	•		,	257
Q1 a) b) c) d)	What are antion Why potassiur Explain univer Mention the st	orage and uses of La	camples. eparation of iodin nughing gas.			(2 x 10)	
257 e) f) g) h) i)	Define astring Give the comp What do you n Define buffer a	ceutical aids? Give two ent. losition of ORS. nean by physiologica action and buffer capa e principle involved in	l acid base balar acity.		257		257
Q2 a) 257 b)		ograph of Magnesiun eptics and ⊴disinfec action.		them accordin	g to their	(5) (5)	257
Q3 a) b)	•	ons are to be taken d role of iodine in hum		f radiopharmaceเ	uticals?	(5) (5)	
Q4	Discuss in de substances.	tail the different sou	urces of impuriti	es found in pha	ırmaceutical	(10)	
Q5 a) b)		e preparation, proper al agents? Classify it gents.				(5) (5)	257
Q6 a) b)	Discuss about Write down the	G.M. counter. e monograph of Alum	ı and Silver Nitra	te.		(5) (5)	

Q8 Write short Notes on any TWO: (5 x 2) Irritant Purgatives. a)

Explain in detail the limit test of Arsenic along with a neat and labelled diagram,

(10)

- Limit Test of Chloride. b)
- Expectorant c)

**Q7**<sub>257</sub>

Concepts of acids and bases.