Registration No: Total Number of Pages: 01 B. Pharm **BP103T** 1st Semester Regular / Back Examination: 2021-22 **PHARMACEUTICS** BRANCH(S): B. Pharma Time: 3 Hour Max Marks: 75 Q.Code: OF738 Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III. The figures in the right hand margin indicate marks. Part-I Q1 Answer the following questions: (2×10) How you can calculate child dose according to dilling's formula? a) b) Why clicking sound is found in emulsion preparation? c) Differentiate between lotion and liniment? d) Write the instruction to be written on label of biphasic liquid preparations. Convert 50% alcoholic preparation to proof spirit. e) f) What are the English meaning of t.i.d and sos g) What is eutectic mixture? Why tetracycline is not taken with milk for therapeutic use? h) i) Name the two reasons responsible for physical incompatibility. i) What is compound tragacanth? Part-II Q2 Focused-Short Answer Type Questions- (Answer Any Seven)  $(5 \times 7)$ Indian Pharmacopoeia a) b) Suppositories c) Posology d) Deflocculated suspension e) Factors influencing dermal penetration of drugs. f) Stability problems of an emulsion and methods to overcome. g) **Dusting powders** h) Elixir i) Throat Paint Part-III Long Answer Type Questions (Answer Any Two) Differentiate between suspension and emulsion. Discuss about the preparation of Q3 (10)emulsion. Q4 Define Incompatibility. Classify it. Describe about physical Incompatibility with its (10)remedy. Q5 What is semisolid dosage form? Write in detail about method of preparation of (10)ointments. Q6 What is prescription; write the importance of its parts with a typical format. (10)

Registration No: Total Number of Pages: 02 B. Pharm. **BP102T** 1st Semester Regular / Back Examination: 2021-22 PHARMACEUTICAL ANALYSIS I BRANCH(S): B.Pharma Time: 3 Hour Max Marks: 75 Q.Code: OF646 Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III. The figures in the right hand margin indicate marks. Part-Q1 Answer the following questions:  $(2 \times 10)$ Define accuracy and precision. What are self-indicators and universal indicators? Give examples. b) c) What is titration error? d) Calculate the pH of 0.1N H<sub>2</sub>SO<sub>4</sub>. e) Explain the role of nitrobenzene in precipitation titration. f) Why acetic acid is added in the preparation of perchloric acid solution? g) Name two indicators used in acid-base titrations. Write Nernst equation. Mention its importance. h) i) . Define conductance and resistance. Mention their units. j) Differentiate iodometry and iodimetry. Part-II Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5×7) What are the primary and secondary standards? Give the ideal requirements of a primary standard. b) What are Neutralization curves? How is it useful in the selection of indicators in the titration between strong acid with the strong base? c) Explain the concept of Masking and Demasking with suitable examples. Explain the basic principles involved in redox titrations? Give the applications of titration with Potassium iodate. Write the steps involved in gravimetric analysis. Add a note on the washing of precipitates. f) Classify and explain the various EDTA titrations. What is a polarographic curve? How it is plotted? Mention different areas in the polarographic curves. h) Discuss pyrolysis curve in detail. Mention the applications. Write the construction and working of the conductivity cell. Part-III Long Answer Type Questions (Answer Any Two) Q3 Define and classify errors? Describe the various methods to minimize the errors. (10)Q4 What are non aqueous titrations? Explain in detail the types of solvents used in non-aqueous litrations. Write the assay of Sodium Benzoate.

Q5 Classify precipitation titration with examples. Explain Mohr's method in detail. (10)Q6 Explain the principle involved in potentiometric titration. Give the construction, (10)working, advantages, and disadvantages of glass electrodes. 544 251

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Registration No: Total Number of Pages: 02 B. Pharm. **BP104T** 1st Semester Regular / Back Examination: 2021-22 PHARMACEUTICAL INORGANIC CHEMISTRY BRANCH(S): B.PHARMA Time: 3 Hour Max Marks: 75 Q. Code : OF695 Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III. The figures in the right hand margin indicate marks. Part-I Q1 Answer the following questions:  $(2 \times 10)$ a) Why dilute nitric acid is added in the limit test for Chloride? b) What is lugol's Solution? Mention its uses. What are dentifrices and anti-caries agents? Give examples. c) Write down the principle involved in limit test for Sulphate. d) Write any two effects of impurities in pharmaceutical substances. e) f) What is blue vitriol? Mention its uses. g) Define astringent. Give two examples. What is half-life of a radioactive material? Mention the units of radioactivity. h) What is achlorhydria? Mention its therapy. i) Write down the composition and uses of ORS. i) Part-II Q2 Focused-Short Answer Type Questions- (Answer Any Seven)  $(5 \times 7)$ Write down the principle and procedure for the limit test of iron. a) What are the ideal characteristics of antacid? Add a note on systemic antacids. b) Write the different type of acid base theory with suitable examples. c) d) Define haematinics and write down the monograph of Ferrous sulphate. e) Describe the role of fluorides in dental care. What are cathartics? Classify cathartics basing on their mechanism of action with suitable examples. Give the monograph of Magnesium sulphate. Discuss various applications of radio pharmaceuticals. g) Define antidotes. Classify antidotes according to their mechanism of action. Write down the monograph of sodium thiosulphate. Define expectorants. Give the mechanism of action of expectorants. Write down the monograph of any one inorganic expectorant. Long Answer Type Questions (Answer Any Two) Q3 What are buffers? Explain in detail buffer action and buffer equation. Discuss the (10)applications of buffer in pharmacy. Q4 Explain in detail, the limit test for Arsenic along with a neat and labeled diagram. (10)

Classify antimicrobial agents with suitable examples. Mention the mechanism action of antimicrobial agents. Write down the monograph of Chlorinated lime and Hydrogen Peroxide.

Q6 Discuss the different properties of α, β and Y-rays. Give a detail note on the construction and working of G-M counter. (10)

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An	25° swer	Question No.1	HUMA (Part-1)	N ANATO BRANC Ti Ma Q.C which is	OMY AN CH(S): B ime : 3 H ax Marks Code : C s compu rom Par	D PHYSIC Pharma Hour S: 75 DF592 Ilsory, an t-III.	<u>(1)</u>	om Part-II and	any two				
01		Anguar the fall	owina ar	octions :	Part-l				(2×10)				
Q1	a)	Answer the follo							(2~10)				
	b) c) d) e)	Which cell organ Write the structu Define the term Write different be	elle is ca re and fui proximal a	lled as sui nctions of and distal.	cide bags plasma n	nembrane.		281					
	f)	Classify muscula	ar tissue;	and write t	their loca	tion and fu	nctions?						
	g)	What is Electroc	ardiogran	n.									
	h) i) :51	Write the function Name the neurosympathetic nen What are the and	rotransmi ve ending	tters relea		=31	351	postganglionic					
	j)	what are the arr	ngens and	u antibodit			ou group:	()±					
222				2 12	Part-II				,				
Q2	- 280	Focused-Short		T(170) X(1		80	iny Seven)		(5×7)				
	a)	Define tissue. Discuss details about epithelial tissue.  Write the principles of cell communication.											
	b)	가장하다 가장 가장 가장 하는 것이 없어 가장 하는 것이 없어 가장 하는 것이다.											
	c) d)	Describe details Write notes on n				12011	550	257					
	e)	Classify the bone				onic structi	ire of hone						
	f)	Write the structu					are or borre.						
	g)					yo.							
	h)	Write the structure and functions of skin. Write the origin and functions of cranial nerves.											
	i)	Describe the cor		and functi	ions of blo	ood.							
	251	351		251	Part-III			254					
		Long Answer T							1774-277				
Q3	a) b)	Discuss the hum Explain briefly th					ell organelles		(5) (5)				
Q4		Describe details	about the	following	s:								
	a)	Bones of Thorac			profession and the second				(5)				
	h)	Synovial joints				CHARGE.			(5)				

Q5 Write short notes on: Mechanism of blood coagulation a) (5) (5) b) Blood group and its significance in clinical practice. a) Describe human heart with a neat and labelled diagram.
 b) Write a detail notes on Cardiac cycle. Q6 251 (5)(5) 251 255

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Registration No: -

Tota	al Number of Pages:01 KMIPS-251 B.PHARM Sub Code: BF	106RMT
	1st Semester Regular / Back Non University Examination: 2021-2022	
	SUB: REMEDIAL MATHEMATICS - THEORY	
	BRANCH: B.PHARMA	
	Max Marks: 35 Time: 2 Hours	
	Answer any five from Part-I and any one from Part-II.	
	The figures in the right hand margin indicate marks.	
	Part- I Only Focused-Short Answer Type Questions- (Answer Any Five out of	(05x05)
Q1	Seven)	(03,03)
a)	Evaluate   5 3 2   4 2 1   5 6 7	(5)
b)	Find equation of straight line passing through (2,-5) and (3,7)	(5)
c)	Find Equation of straight line whose sum of intercept is 7 and passing through (1,-1)	(5)
d)	Find $\frac{dy}{dx}$ if $x^y = x^3 + 2\sin x$	(5)
e)	Find $\frac{dy}{dx}$ if $x^3 + y^3 + xy = 0$	(5)
f)	Evaluate $\lim_{x\to 0} \frac{\sin 5x}{\cos 7x}$	(5)
g)	Integrate $\int (x^3 + \cos x + e^x) dx$	(5)
	Part-II	
	Only Long Answer Type Questions (Answer Any One out of Two)	(01X10)
		(10)
Q2	Prove that $\begin{vmatrix} a+1 & 1 & 1 \\ 1 & b+1 & 1 \\ 1 & 1 & c+1 \end{vmatrix} = abc(1 + \frac{1}{a} + \frac{1}{b} + \frac{1}{c})$	
02	Find the inverse matrix of the matrix $A = \begin{bmatrix} 2 & 5 & 1 \\ 3 & 4 & 4 \end{bmatrix}$	(10)
Q3	Find the inverse matrix of the matrix $A = \begin{bmatrix} 2 & 5 & 1 \\ 3 & 1 & 4 \\ 1 & 3 & 2 \end{bmatrix}$	

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ota	Number of Pages:01 KMIPS-251 B.PHARM Sub Code: BP	106RBT						
Ota	Number of August							
	1st Semester Regular / Back Non University Examination: 2021-2022							
	SUB: REMEDIAL BIOLOGY- THEORY							
	BRANCH: B.PHARMA							
	Max Marks: 35 Time: 2 Hours							
	Answer any five from Part-I and any one from Part-II.							
	The figures in the right hand margin indicate marks.							
	Part- I	(05x05)						
Q1	Only Focused-Short Answer Type Questions- (Answer Any Five out of Seven) (05x05							
-\	Write a comparative study on Spermatogenesis and Oogenesis.	(5) (5)						
a)	Explain the process of urine formation.							
b)	Highlight the various steps involved in Krebs cycle.	(5)						
c)	Highlight the various steps involved in recess of the							
d)	Discuss the mechanism of Renin-Angiotensin-Aldosterone system in GFR regulation.							
	Explain the mechanism of breathing and its regulation.							
e)	Explain the kingdom Monera and Animalia with features and classification.							
f)	Explain the kingdom Worlera and Ammana the Explain the Explain the Kingdom Worlera and Ammana the Explain the Explai							
g)	Mention the types of tissue. Write about the epithelial tissue and its different layers.							
	Part-II							
	Only Long Answer Type Questions (Answer Any One out of Two)							
		(10						
Q2	Illustrate comparative study on physiological effects of ANS and spinal cord.	(10						
Q3	Explain the entire phases involved in Calvin cycle and Hatch-Slack cycle.							