## DOCTOR OF PHARMACY First Year Pharm. D.: SUMMER: 2022 SUBJECT: PHARMACEUTICS

Day: Friday
Date 06-May-2022

S-5725-2022

Time: 10:00 AM-01:00 PM

Max. Marks: 70

N.B.			
	<ol> <li>1)</li> <li>2)</li> </ol>	Q. No. 1 and Q. No. 5 are COMPULSORY. Out of the remaining atter TWO questions from Section-I and any TWO questions from Section-II. Both the sections should be written in SEPARATE answer books.	mpt any
	3) 4)	Figures to the <b>RIGHT</b> indicate full marks.  Draw neat labeled diagrams <b>WHEREVER</b> necessary.	
		SECTION-I	
Q.1	<b>A</b> )	Answer any <b>FOUR</b> of the following:	(08)
	i)	Define the following terms: i) Isotonic solutions ii) Compounding	
	ii)	Enlist the importance of Nasal sprays over Nasal drops.	
	iii) iv)	Write the role and examples of Antioxidants and density modifying agents.  Differentiate between liniments and lotions.	
	v)	What is the direction and patient counselling for collodions?	
	vi)	Write briefly about compounding methods of solutions.	
	B)	An adult dose of Nimesulide is 100 mg bid. What will be the dose for child weighing 30 kg?	(03)
Q.2	Exp	plain in detail various factors affecting for the dose calculation.	
Q.3	a)	Define and explain various parts of prescriptions with suitable examples.	(07)
	b)	Define and classify the Granules. Enlist the advantages of granules over powder.	(05)
Q.4	Write notes on any <b>THREE</b> of the following:		(12)
	a) b)	Mouthwash and Gargles Developmental changes of European pharmacopoeia	
	c) d)	Different formulation ingredients used in the solutions Historical background and development of profession of Pharmacy	
		SECTION-II	
Q.5	A)	Answer any FOUR of the following:	(08)
	i)	Define and classify the types of suspension.	
	ii) iii)	What is the need of calibration of suppository? Explain briefly.  Define and enlist the ideal characteristics of sutures and ligatures.	
	iv)	Write the ideal characteristics of suppository bases.	
	v) vi)	Write the role and examples of Flocculating agents. Enlist the advantages of multiple emulsion over simple emulsion.	
	<b>B</b> )	Explain briefly about the principle of extraction.	(03)
Q.6		efine the term incompatibility. Explain in detail about the therapeutic compatibility.	
<b>Q.</b> 7	a)	Define and classify the term sutures and ligature. Write briefly about	(07)
	b)	Absorbable sutures. Write briefly about the physical stability of suspension.	(05)
Q.8	Write	e notes on any THREE of the following:	(12)
	a) Identification tests for emulsion		
	b) c)	Percolation Factors affecting the rate of extraction	
	d)	Steps involved in compounding of cocoa butter suppository	