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GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA PHARMACY – SEMESTER – II -EXAMINATION – WINTER 2015

Subject Code: 420001 Date: 19/12/2015 **Subject Name: Pharmaceutics II** Time: 10:30 AM TO 1:30 PM Total Marks: 80 Instructions: 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** Define posology. State the factors influencing the dose. 06 (a) Pinworm syrup contains 100 mg piperazine citrate per ml of syrup. If adult 05 (b) dose is 1500mg, what volume of the syrup should be given to a 8 years old child? How many ml for 15 months old child? Prepare 300 ml of 5% W/V solution of potassium chloride in water. 05 (c) Q.2 (a) Explain the following terms: 06 (1)Physical incompatibilities (2) Adjusted incompatibilities (3) Tolerated incompatibilities(4) Immediate incompatibilities (5) Delayed incompatibilities 05 Identify the incompatibilities in the following prescriptions and suggest the suitable remedy. Recipe Dilute sulphuric acid4.0 Potassium Iodide 8.0 mlto180 ml Define the term powder. What are the advantages and disadvantages of powders as 05 (c) unit dosage forms? Enumerate problems encountered in dispensing of powders. Describe any on in detail Q.3 06 with suitable remedies. 05 (b) Classify different types of mixtures. Explain the various adjuncts used in the formulation of mixtures. (c) Define Gargles, Douches and liniments. Give important labeling instructions for the 05 same. Q.4 (a) Comment: 06

1. Glycerin is preferred as vehicle in Throat paints.

	(b)	 Overfilling of mould is required in some of suppository preparations. Cocoa butter should not be overheated. Classify types of suspensions. Describe the method of preparation for suspensions containing poorly wettable solids. 	05
	(c)	What is zeta potential? Explain in brief.	05
Q.5	(a)	Define the term Emulsion. Describe various methods/tests by which the type of emulsion can be determined.	06
	(b)	Define: Creaming, Cracking, phase inversion. Describe various factor influencing creaming of emulsions.	05
	(c)	Differentiate between syrup IP & syrup USP	05
		Differentiate between ointments & Pastes	
Q. 6	(a)	Classify ointment bases. Describe in brief hydrocarbon bases.	06
	(b)	Enumerate ideal characteristics of suppository bases.	05
		Describe advantages and disadvantages of Cocca butter base.	
	(c)	Write short note on face powders.	05
Q.7	(a)	Classify types of parentral products. What production facilities are essential for production of parentrals. Discuss in brief.	06
	(b)	Write a brief note on sterility testing for parentral dosage forms	05
	(c)	Describe ideal characteristics of eye drops. Give important labeling instructions for the same.	05

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