Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY D.Ph. II- SEMESTER II- EXAMINATION GTU SUMMER 2015

Subject Code: 420001 Date: 28/04/2015 Subject Name: Pharmaceutics -II Time: 10:30 AM TO 01:30 PM **Total Marks: 80 Instructions:** 1. Attempt any five questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 1) What is the remedy for an incompatibility containing Quinine HCl and 06 (a) sodium salicylate? 2) How will you rectify an incompatibility containing 1g each of sodium salicylate and caffeine citrate. Define prescription. Briefly discuss different parts of a prescription with their **(b)** 05 significance. Define posology. Enlist various factors affecting dose of the drug. Write 05 (c) Clark's formula for calculation of paediatric dose. **Q.2** Define and classify powders. Write short note on effervescent granules. 06 (a) Discuss the formulation of monophasic liquid dosage forms. 05 **(b)** (c) What are the various advantages and disadvantages of suspensions? 05 Differentiate between flocculated and deflocculated suspensions **Q.3** Define emulsions. What are different types of emulsions? Discuss any one (a) 06 theory of emulsion. **(b)** Write short notes on stability of emulsions. 05 What do you mean by HLB values? Discuss their importance in formulation of (c) 05 a stable emulsion. 0.4 Mention the ideal properties of ointments. Classify various ointment bases. 06 Discuss the charateristics of absorption bases. Write a short notes on pharmaceutical gels. **(b)** 05 (c) Define suppositories. Mention the advantages and disadvantages of 05 suppositories. 0.5 Define ophthalmic preparations. List the various types of ophthalmic products 06 available in market. Discuss the properties of an ideal ophthalmic product. **(b)** Define dentrifices. Write a short note on their formulation aspects. 05 Discuss the formulation of antidandruff shampoos. (c) 05 Q. 6 (a) Discuss at length various factors affecting formulation of parenterals. 06 Define parenterals. Discuss their advantages and disadvantages. 05 **(b)** How are the following tests performed? 1. Leak test 2. LAL test 05 (c) **Q.7** Give reasons: 06 (a) 1) Why temperature control is required for cocoa butter suppositories? 2) Why colors and dyes are not added in emulsions? 3) Why glycerin acts as self preservative?

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Write a short note on Dusting powder OR Bulk powder.

Write a short note on Displacement value.

(b)