

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Pharmacy Second Year Examination May 2010

Subject code: 420001

Subject Name: Pharmaceutics - II

Date: 19 / 05 / 2010

Time: 03.00 pm – 06.00 pm

Total Marks: 80

Instructions:

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

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|-------------|---|-----------|
| Q.1 | (a) Describe various parts of Prescription | 06 |
| | (b) Briefly discuss various factors affecting Fixation of Dose | 06 |
| | (c) Write briefly about Effervescent Powders | 04 |
| Q.2 | (a) Describe at length various measures to be taken to control the contamination in Sterile Production Area | 10 |
| | (b) Write a detailed note on Sterility testing. | 06 |
| Q.3 | (a) Classify Incompatibilities. Discuss various ways for correction of Incompatibilities. | 08 |
| | (b) Discuss following types of Incompatibilities giving one example of each type. Also discuss their remedies (Any TWO)..... | 08 |
| | i. Incompatibility involving Evolution of Gas | |
| | ii. Incompatibility of soluble salicylate with acid | |
| | iii. Incompatibility of Alkaloidal salt with alkali | |
| Q.4 | (a) Describe in brief various tests for identification of Types of Emulsion. | 06 |
| | (b) Enlist various theories of Emulsification. Write a detailed note on Oriented-Wedge Theory of Emulsification. | 06 |
| | (c) Briefly discuss about Herapath reaction. | 04 |
| Q.5 | (a) Write a note on Types of Mixtures. | 06 |
| | (b) Describe in detail Evaluation of Suspensions. | 06 |
| | (c) Give Differences between Flocculated and Deflocculated Suspensions. | 04 |
| Q. 6 | Write a detailed note on (Any TWO) | 16 |
| | (a) Methods of Ointment preparation | |
| | (b) Suppository Bases | |
| | (c) Dentifrices | |
| Q.7 | (a) Calculate Followings.. | 06 |
| | 1. Calculate Displacement Value of Zinc oxide if 10 suppositories each containing 20 % Zinc oxide have total weight of 18 grams. Moldcapacity is 1.5 gram with respect to cocoabutter. | |
| | 2. Find out the amount of cocoabutter required to prepare 10 Suppositories each containing 200 mgs of Chloral hydrate. Mold capacity is 1.5 gram and Displacement Value of Chloral hydrate is 1.2 | |
| | (b) Write a detailed note on Formula ingredients of parenteral products. | 06 |
| | (c) Write a note on calculation of Paediatric Dose. | 04 |
