

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. / M. Ph. / D.Ph. - SEMESTER-II • EXAMINATION – WINTER-2016

Subject Code: 420001**Date: 20/10/2016****Subject Name: Pharmaceutics-II****Time: 02:30 PM TO 05:30 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 (a) Define Prescription. Discuss various operational aspects of compounding prescription. 06
- (b) What is incompatibility? Discuss in detail about Physical incompatibilities. 05
- (c) Discuss in brief about factors affecting drug's action in humans. 05
- Q.2 (a) Comment on the following recipes: 06
1. Rx
1. White Beeswax 10 g
2. Liquid Paraffin 30 g
3. Borax 0.5 g
4. Rose water 9.5 g
2. Rx
1. Sodium Salicylate 5 g
2. Lemon Syrup 20 ml
3. Purified water to 75 ml
- (b) Differentiate between following: 05
1. Ointments and pastes
2. Flocculated and Deflocculated Suspensions
- (c) Write short notes on: 05
1. Cachets
2. Effervescent granules
- Q.3 (a) Define solubility. Discuss in brief about various solubility enhancement techniques. 06
- (b) Discuss in detail about various identification tests of emulsions. 05
- (c) Describe bases for preparation of pastes. 05
- Q.4 (a) Describe in detail about evaluation of ointments. 06
- (b) Discuss glycerogelatin base for suppository preparation. 05
- (c) Define Dusting powders. Describe types of Dusting Powders. Discuss in brief insufflations. 05
- Q.5 (a) Define isotonicity. Describe in detail various tonicity adjustment techniques. 06
- (b) Give a brief account on vehicles for parenteral preparations. 05
- (c) Discuss the formulation aspects of Shampoo. 05
- Q. 6 (a) How do the electrokinetic properties of suspended particles help in formulation of suspension? 06
- (b) Describe ideal properties of ointment base. Classify the ointment bases. Discuss any one in brief. 05
- (c) Discuss sterility testing of parenteral preparations. 05

- Q.7 (a) Define eye drops. Discuss in brief about factors affecting formulation of eye drops. 06
- (b) Draw a labeled layout of parenteral production area. 05
- (c) Write a short note on 05
1. Ophthalmic inserts.
 2. Cataplasms
