## **GUJARAT TECHNOLOGICAL UNIVERSITY** D. Pharm. – SEMESTER – II • EXAMINATION – WINTER • 2014

Subject Code: 420001

## Date: 20-12-2014

Subject Name: Pharmaceutics - II Time: 10:30 am - 01:30 pm Instructions:

## **Total Marks: 80**

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

Q.1	<b>(a)</b>	Define prescription? Discuss parts of prescription. Write a general dispensing procedure for prescription.	06
	<b>(b)</b>	Define and Classify incompatibilities. Write the causes of therapeutic incompatibility.	05
	(c)	Define posology. Explain the various methods for calculating dose of drugs.	05
Q.2	(a) (b) (c)	Define & classify monophasic dosage forms. Write a note on elixir. Define emulsion. Classify types of emulsion and emulsifying agents. Define suspension. Discuss in brief the formulation of suspension.	06 05 05
Q.3	(a)	<ul> <li>Differentiate between:</li> <li>(i) Flocculated and Deflocculated suspension.</li> <li>(ii) Lotion and Liniments.</li> </ul>	06
	(b) (c)	Describe in detail the evaluation tests for emulsion. Briefly discuss about Herapath reaction.	05 05
Q.4	(c) (a)	Comments:	05
		<ul> <li>(i) Creams are more preferred to pack in collapsible tubes.</li> <li>(ii) Syrup is self preservative.</li> <li>(iii) Glycerogelatin suppositories during its preparation heated for one hour at 100<sup>o</sup>C.</li> </ul>	
	(b)	Differentiate following: (i) Paste and Jellies. (ii) Gargles and mouthwashes.	05
	(c)	Define suppository. Classify the suppository bases.	05
Q.5	(a)	Give the ideal properties of suppository base. Discuss in brief the methods of preparation of suppositories.	06
	(b) (c)	Classify the ointment bases with their advantages and disadvantages. Discuss formulation ingredients of shampoo.	05 05
Q. 6	(a) (b) (c)	Classify the powders and write in detail about effervescent powders. Enlist different polishing agents used in dentrifrices and discuss tooth paste. Enlist different evaluation tests for parenterals and explain in detail sterility testing of parenterals.	06 05 05
Q.7	(a) (b)	<ul> <li>Discuss the general requirements for parenterals.</li> <li>Comment on followings: <ul> <li>i) Preservatives incorporated in ophthalmic drops.</li> <li>ii) Cocoa butter should not be overheated during preparation of suppositories.</li> </ul> </li> </ul>	06 05
	(c)	Give the formulation, labelling and packaging requirement of eye drops.	05