Instructions:

Enrolment No.	
E	∃nrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-VII May-2012 Examination Subject code: 270002

Total Marks: 80

Subject Name: Pharmaceutical Technology - I
Time: 02:30pm to 5:30pm Date: Date: 24-05-2012

2	. Ma	tempt any five questions. Ike suitable assumptions wherever necessary. Jures to the right indicate full marks.	
Q.1	(a) (b)	Classify additives used in liquid dosage forms. Describe solubilizing agents. Comment: Sedimentation rate of flocculated suspensions is faster than deflocculated suspensions. Explain formulation of flocculated suspension.	06 05
	(c)	Enlist mechanical equipments used for emulsification. Describe Homogenizer.	05
Q.2	(a)	Classify routes of drug penetration through skin. Describe various factors affecting on drug penetration through skin.	06
	(b)	Comment: Creams are easily washable. Differentiate cold cream and vanishing cream.	05
	(c)	Describe ideal properties of suppository base. Explain siginicance of theobroma oil base.	05
Q.3	(a)	Describe pharmaceutical application of aerosol.	06
	(b)	Comment: Propellants are highly volatile. Describe type of propellants used in Aerosol preparation.	05
	(c)	Enumerate quality control tests of Aerosol. Describe flash point and particle size determination.	05
Q.4	(a)	Differentiate SVP and LVP. Describe types of IV sets.	06
	(b) (c)	Comment: Pyrogens are killed by dry heat sterilization. Explain LAL test. Describe various routes for administration of parenteral preparation with suitable examples.	05 05
Q.5	(a)	Explain how and why the prefilled syringe is better than convention	06
	(b)	disposable syringe or vial packaging system. Comment: Vertical laminar air flow is better than horizontal laminar air flow for parenteral manufacturing. Explain AHU.	05
	(c)	Enlist vehicles used for parenteral dosage form. Explain water for injection.	05
Q. 6	(a)	Explain in brief about Total Parenteral Nutrition.	06
	(b)	Comment: Ophthalmic product should be used within one month after opening the cap. Describe various types of ophthalmic products.	05
	(c)	Describe types of Actuators for aerosols.	05
Q. 7	(a)	Write a note on FFS Technology.	06
	(b)	Comment: Hydrophilic polymers are used in gel preparation. Describe pharmaceutical application of gels.	05
	(c)	Define microemulsion. Describe theory of emulsionsification.	05
