Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Ph. / M. Ph. / D.Ph. - SEMESTER-I • EXAMINATION – WINTER-2016

·	•	Code: 410001 Date: 20/10/2016	
Time Instru 1. 2.	e:10: actions Atte Mal	Name: Pharmaceutics I 30AM TO 01:30 PM Total Marks: 80 s: empt any five questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks.	
Q.1	(a)	What do you mean by novel drug delivery systems? Discuss their advantages.	06
C	(b) (c)	Write a short note on Special carrier system for targeting drugs. What is the significance of pharmacopoeia? Write a short note on IP. Define the term 'metrology'. Which systems have been used by the pharmacists to weigh and measure ingredients?	05 05
Q.2	(a)	Define size reduction. Discuss its objectives and various factors affecting size reduction.	06
	(b)	Discuss the principle, construction, working, advantages, disadvantages and applications of Ball mill.	05
	(c)	Compare glass and plastic as packaging materials for pharmaceutical products.	05
Q.3	(a)	Define mixing. Discuss its objectives. Discuss different types of mixtures giving suitable examples.	06
	(b)	Discuss the principle, construction, working, advantages, disadvantages and applications of Colloid mill.	05
	(c)	Discuss cyclone separator as separation equipment.	05
Q.4	(a)	Discuss various factors affecting the rate of filtration. Write a short note on Filter aids.	06
	(b) (c)	Discuss Soxhelet extraction process in detail. Define percolation. What are the factors affecting the efficiency of drug extraction for organized drugs.	05 05
Q.5	(a)	Define evaporation. Discuss the various factors affecting evaporation.	06
	(b) (c)	Discuss Stoke's still for preparation of Purified water I.P. Discuss Fluidized bed dryer as drying equipment used in pharmaceutical industry for drying of various substances.	05 05
Q. 6	(a)	List the various types of distillation. Why condensers are used in upright or oblique position? Discuss various types of condensers.	06
	(b)	What is slugging method of tablet preparation? What are its advantages over wet granulation method?	05
	(c)	Ennumerate various test used for quality control of tablets. How can you evaluate tablets for Disintegration time and friability?	05

prepare Diphtheria vaccine?

Give the advantages and disadvantages of capsules. Discuss rotary die process

Differentiate between active immunity and passive immunity. How can you

06

05

05

Define sterilization. Classify various methods of sterilization. Discuss

autoclave as a method of sterilization.

for preparation of capsules.

Q.7

(a)

(b)

(c)