GUJARAT TECHNOLOGICAL UNIVERSITY DIPLOMA PHARMACY– SEMESTER – I • EXAMINATION – SUMMER 16

Subject Code: 410001 Subject Name: Pharmaceutics-I Time: 10:30 AM TO 01:30 PM

Date: 11.05.2016

Total Marks: 80

Instructions:

2.	Ma	empt any five questions. ke suitable assumptions wherever necessary. ares to the right indicate full marks.	
Q.1	(a)	Write principle, construction, advantage, disadvantage and application of Fluidised bed dryer or evaporating still.	06
	(b)	Define percolation. Discuss various steps involved in percolation process.	05
	(c)	Define mixing. Classify mixer. Write a note on any one solid mixer.	05
Q.2	(a)	Enumerate various methods of size separation. Explain construction and working of cyclone separator.	06
	(b)	Define capsule. Give its advantage & disadvantage. Write composition of hard gelatin capsule shell and soft gelatin capsule shell.	05
	(c)	Define following terms (Any five):I) FusionII) CalcinationV) DesiccationVI) Sublimation	05
Q.3	(a)	Define Sterilization and classify it. Write note on moist heat sterilization.	06
	(b)	Define Filteration and discuss various factors affecting rate of Filteration.	05 05
0.4	(c)	Write a note on Plate and Frame filter press.	
Q.4	(a)	Define tablets. Give advantage and disadvantage of tablets dosage form. Enumerate various tablet excipients with suitable examples.	06
	(b)	Discuss evaluation of tablets as per IP.	05
	(c)	Classify tablets. Write a note on any two type of tablet.	05
Q.5	(a)	Write various types of fractional column. Write a note on distiller which work under reduced pressure.	06
	(b)	i) How many parts of 90%, 60%, 34% and 25% alcohol to be mixed together so as to give 40% alcohol.ii) Multiply 5 pt, 7 fl. Oz and 4 fl. dr by 4.	05
	(c)	Define size reduction. Write note on equipment which work on impact and attrition principle.	05
Q. 6	(a)	Write difference between followings:I) Dry granulation and wet granulationII) Evaporation and Distillation	06
	(b)	Define and classify dosage form.	05
	(c)	Write a note on Pharmacopoeia.	05
Q.7	(a) (b) (c)	Write note on glass as a packaging material. What do you mean by Immunity? Classify various types of Immunity. Give the methods of preparation of BCG vaccine in brief.	06 05 05