Total No. of Questions: 8] [Total No. of Printed Pages: 2 Roll No. rgpvonline.com PY-401(O&N) B. Pharm. (Fourth Semester) EXAMINATION, June, 2011 PHARMACEUTICS-V (Old) PHARMACEUTICS-IV (New) (Pharmaceutical Engineering-II) Time: Three Hours Maximum Marks: 70 Note: Attempt any five questions. All questions carry equal marks. 1. (a) What are the factors affecting size reduction? Explain the construction, working and advantages of fluid energy mill. (b) Describe about the various sieving methods. (a) How do multiple effect evaporators work? Give a neat diagram to explain its working. (b) Explain the construction and working of calandria. Give its advantages and disadvantages. 3. (a) Write a brief account of McCabe-Thiele approach for prediction of theoretical plates. (b) What are Azeotropic mixtures ? How can they be separated?

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4,	(a)	Describe about the working of lyophilizers. Give its principle, construction and application.
,	(b)	Give the schematic diagram, procedure, applications and advantages of soxhlet extractor.
5.	(a)	Write the theory of semisolid mixing. Give a brief account on the equipment used in semisolid mixing. 7
	(b)	
6.	(a)	Enumerate different methods for the determination of pore size of the membrane filter. Explain bubble point test method in detail.
	(b)	Discuss the theory of filtration. Write a short note on filter aid.
7.	(a)	Explain the various properties of granules which may affect the tablet preparation.
	(b)	What are the parameters you will consider for scale up of tablet formulation?
8.	Wri	te short notes on any four of the following: 14
	(a)	Diffusion battery
	(b)	Ball mill
	(c)	Crystal habit rgpvonline.com
	(d)	Mixing index
	(e)	Material balance
	(f)	Fluidized bed dryer

P. T. O.