Code No. 13252 / Non CBCS

FACULTY

B. Pharmacy 2/4 II Semester (Non CBCS)(Backlo)   Examination, July 2019

Subject : Pharmaceuticals Enineerin   II

Time : 3 Hrs   Max. Marks: 70

Note: Answer all questions. All questions carry equal marks.

1 (a) How the particle size and its distribution of pharmaceutical powders are determined by sievin method?   (8)
   (b) Explain the construction, workin and applications of Rotex screen.   (6)
                                        OR
   (c) Compare and contrast between air separator and cyclone separator with the help of diarams.   (8)
   (d) Write the construction and workin principle of hammer mill.   (6)

2 (a) Describe the factors influencin evaporation process.   (7)
   (b) Explain the theory, construction and workin of steam distillation unit.   (7)
                                        OR
   (c) Describe the enery and material balances in evaporation process.   (6)
   (d) Write the theory involved in azeotropic distillation and mention the construction and workin of distillation under reduced pressure.   (8)

3 (a) Write the importance of as ab sorption and different types of Towers alon with their packin.   (6)
   (b) Explain the construction, workin and application of freeze dryer.   (8)
                                        OR
   (c) Explain the cakin of crystal and its prevention.   (6)
   (d) Explain the construction, workin   and application of Swenson Walker crystallizer.   (8)

4 (a) Explain the construction, workin and applications of triple roller mill.   (7)
   (b) Write the principle, construction and workin of Zi   za mixer.   (7)
                                        OR
   (c) Explain the types of ion exchane process alon with the applications in pharmacy.   (7)
   (d) Write abt Vortex formation and its prevention techniques with the help of diarams.   (7)

5 (a) What are the applications and drawbacks of automatic process control?   (4)
   (b) Write the techniques for measurement of pressure and temperature.   (10)
                                        OR
   (c) What are forces involved durin compaction and mention their measurement techniques?   (10)
   (d) Write the importance of Huckle plots in tablet compression.   (4)

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