

Code No: PHR16221

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SET - 1

II B. Pharmacy II Semester Supplementary Examinations, April/May - 2019 PHARMACEUTICAL UNIT OPERATIONS-II

Time: 3 hours Max. Marks: 70 Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the question in **Part-A** is Compulsory 3. Answer any FOUR Questions from Part-B PART -A a) What is black body? Give its properties. 1. (2M)b) Explain construction of calandria. Give its uses. (2M) c) What are constant boiling point mixtures? How are they separated? (2M) Write the principle involved in freeze drying. d) (2M) Fluid energy mill is meant for wet milling. True or false. Explain. e) (2M) What is mixing indices? (2M) f) What do you mean by vortex? How it is prevented? (2M) g) PART -B With a neat labeled diagram, explain the construction and working of shell and 2. a) (8M) tube heat exchanger. b) Explain variation in temperature in counter current flow. (6M) a) Write a brief note on factors influencing evaporation. 3. (8M) Describe the construction and working of steam jacketed kettle. b) (6M) Explain principle and applications of steam distillation. 4. a) (7M) Describe the design and working of flash distillation apparatus. b) (7M) 5. a) Explain parts of drying rate curve. (7M) b) Describe the construction and working of tray dryer. (7M) Describe the construction, working and applications of Ball mill. (8M) 6. a) State and explain Bond's theory and Kick's theory. (6M) b) 7. a) Describe the construction and working of Colloidal mill. (7M)b) Write the design and working of sliverson mixer. (7M)

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