

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[LR 1220]**

**DECEMBER 2020**

**Sub. Code: 4259**

**(AUGUST 2020 EXAM SESSION)**

**B. PHARMACY DEGREE EXAMINATION**

**SECOND YEAR – (Regulation from 2009-2010)**

**PAPER IV – PHARMACEUTICAL TECHNOLOGY**

***Q.P. Code: 564259***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Enumerate the various factors affecting Filtration. Discuss the construction and working of Rotary filter.
2. Describe the construction, working principle, merits and demerits of fractional Distillation.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write the factors influencing rate of corrosion.
2. Mechanical hazards.
3. What are the uses, advantages and disadvantages of fluidized bed dryer?
4. Write a note on solid – solid mixing.
5. Write note on theory of crystallization.
6. Explain the various laws of size reduction.
7. Sources of heat.
8. Types of measurement of flow of fluids.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Define drying.
2. What are the disadvantages of plate and frame filter press?
3. Define valves.
4. Define centrifugation.
5. Advantage of hammer mill.
6. Lyophilisation.
7. Dehumidification and its application.
8. Define filtration.
9. Classification of Evaporators.
10. Applications of stainless steel in pharmaceutical industry.

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