

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

**[BPHARM 0522]**

**MAY 2022  
(FEBRUARY 2022 EXAM SESSION)**

**Sub. Code: 4259**

**B. PHARMACY DEGREE EXAMINATION  
SECOND YEAR – (NON-SEMESTER)  
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. Explain the Corrosion. Add a note on types of corrosion. Elaborate on the prevention of corrosion.
2. Describe the principle, construction, working, application, merits and demerits of Freeze drying.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain the Sources of Heat.
2. Write in detail about the Swenson walker crystallizer.
3. Give the significance of Reynolds number.
4. Describe in detail about the theory of Crystallization.
5. Write a note on edge filter.
6. With the help of neat diagram explain the construction and working of VENTURI meter.
7. What are heat exchangers and interchangers?
8. Write note on colloidal mill.

**III. Short answers on:**

**(10 x 2 = 20)**

1. What is Filter media?
2. Define centrifugation.
3. Give the advantages of spray drier.
4. List out the applications of glass in pharmaceutical industry.
5. What is diffusive mixing?
6. Define Grey body.
7. What is Pressure head?
8. Define coarse powder.
9. Steam distillation.
10. Elutriation.

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