

Answer All The Questions**10 X 10 = 100 Marks**

1. Discuss in detail the basic components of freeze dryer and its mechanism of action.
2. What is filtration? What are the factors affecting filtration?
3. Name the different types of dissolution apparatus and describe the paddle apparatus in short.
4. What is hand held refractometer? Write its uses in pharmaceuticals.
5. What is the importance of size reduction in extraction process?
6. Explain first falling rate period in drying.
7. What are the various preservatives used in various pharmaceutical preparations?
8. What are the natural and artificial sweetening agents?
9. Write a note on Milling techniques.
10. Write a note on Distillation.

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