

**Second Year B.Pharm Degree Examinations July 2018****Pharmaceutical Technology****(2012 Scheme)****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay****(3x10=30)**

1. Explain the principle, design and operation and uses of film evaporators.
2. Discuss about spray dryer in detail.
3. Explain the principle, construction and working of plate and frame filter press.

**Short notes****(14x5=70)**

4. Heat exchanger
5. Edge filter
6. Flash distillation
7. Diaphragm pumps
8. Stainless steel as material of construction
9. Measurement of humidity
10. Short tube evaporator
11. Planetary mixer
12. Hammer mill
13. Rotary dryer
14. Steam as heating media
15. Fluidized bed dryer
16. Raoult's law and volatility
17. Conical disc centrifuge

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