QP Code: 324006 Reg. No......

Third Semester B. Pharm Degree Supplementary Examinations December 2020

Pharmaceutical Engineering

(2017 Scheme)

Time: 3 Hours Max. Marks: 75

- Answer all questions to the point neatly and legibly
 Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays (2x10=20)

- 1. Explain the principle, construction and working procedure of fractional distillation apparatus. Illustrate the fractional distillation of the mixture of components with the boiling point composition curve.
- 2. Explain the various factors affecting evaporation with the help of a neat diagram. Explain the principle, construction and working of climbing film evaporator

Short Notes (7x5=35)

- 3. Explain the principle, construction and working of ball mill.
- 4. Discuss the types of manometer.
- 5. Sigma blade mixer.
- 6. Explain about Fourier's law.
- 7. Explain the principle, construction, working and applications of filter leaf
- 8. Fluidized bed dryer.
- 9. Discuss about theories of corrosion.

Answer Briefly (10x2=20)

- 10. Types of pharmaceutically important glass.
- 11. Bound and unbound water.
- 12. Types of conveyors.
- 13. Filter medias.
- 14. Equilibrium moisture content.
- 15. Turbulent flow.
- 16. Centrifugal effect.
- 17. Uses of Forced Circulation Evaporator.
- 18. Define grey body.
- 19. List out the equipment used for liquid mixing.
