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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular/Supplementary Winter Examination – 2023

Semester: III

Course: B. Pharmacy

Subject Name: Pharmaceutical Engineering

Subject Code: BP304T

Max Marks: 75

Date: 09/01/2024

Duration: 3 Hr.

Instructions to the Students:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

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Q.1. Objective Type Questions (Answer All the Questions) (10 X 2) = 20

- i) What is the mechanism of size reduction?
- ii) Give applications of filtration
- iii) What is drying curve?
- iv) Draw well labelled diagram of leaf filter
- v) Define corrosion with example
- vi) Give applications of centrifugation
- vii) What is sieve number?
- viii) What is filter aid?
- ix) What is heat exchanger?
- x) Give applications of evaporation

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Q.2. Long Answers (Answer 2 out of 3) (10 X 2) = 20

- i) What do you mean by fluid flow, fluid statics and fluid dynamics? Differentiate between orifice meter and Venturimeter. Describe Venturimeter in detail
- ii) Define distillation. Explain the principle and working of steam distillation
- iii) Classify equipments used for mixing of semisolids. Describe the principle, construction and working of ribbon blender

Q.3. Short Answers (Answer 7 out of 9) (5 X 7) = 35

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- i) Explain the Reynold's experiment, give its significance.
- ii) Explain principle, construction & working of Ball Mill
- iii) Explain principle, construction and working of cyclone separator
- iv) Explain principle, Construction, working & uses of planetary mixer.
- v) Explain principle, Construction working of perforated basket centrifuge.
- vi) Explain the principle of molecular distillation
- vii) Explain principle, Construction, working & uses of fluidized bed dryer.
- viii) Write a note on ferrous metal as material for plant construction.

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