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Library
Pharmaceutical Technology
Brainware University
Barrasat, Kolkata-700125

BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – M.Pharm(PC)-2025

Course Name – Pharmaceutical Process Chemistry

Course Code - MPC204T

(Semester II)

Full Marks : 75

Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Short Answer Type Questions)

5 x 5=25

1. What are the advantages and disadvantages of continuous processing? (5)
2. Summarize the butyric acid fermentation. (5)
3. Explain the solvates and hydrates in the context of pharmaceutical crystallization? Discuss the methods used to prepare and characterize these forms of drugs. (5)
4. Explain the free radical halogenation of alkanes with mechanism. (5)
5. Summarise the Information must be present on the MSDS. (5)

OR

Illustrate the process of Halogenation and kinetics of Halogenation (5)

Group-B

(Long Answer Type Questions)

10 x 5=50

6. Describe the principle and general methods of preparation of polymorphs, hydrates, solvates and amorphous APIs. (10)
7. Explain the aromatic Nitration and its kinetics. (10)
8. Differentiate azeotropic and steam distillation. (10)
9. Construct the process equipment for technical nitration and write a short note on mixed acid for nitration. (10)

OR

Prepare a detailed note with reaction on types of halogenation, catalytic halogenation (10)

10. Summarize the Pressure Filtration and vacuum filtration. (10)

OR

Distinguish Extraction With Reflux, Extraction With Agitation, Counter Current Extraction In (10)
Table Form

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