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School of Medical and Allied Sciences

Master of Pharmacy in Pharmaceutics

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 30

Sem II - MPC204T - Pharmaceutical Process ChemistryGeneral Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) What are the three stages of the scale-up process in pharmaceutical manufacturing? K1 (2)
 - 2) Illustrate the implications of impurity control on regulatory compliance in pharmaceutical manufacturing. K2 (2)
 - 3) Outline the principle of counter current extraction K2 (2)
 - 4) Define organic Impurities? K1 (2)
 - 5) Explain the numbers of various types of evaporators used in industrial settings and their respective applications. K2 (2)
 - 6) Construct the affect of impurity on the quality and safety of pharmaceutical products? K3 (5)
 - 7) Explain how can unit operations contribute to the scale-up process in pharmaceutical manufacturing? K4 (5)
- OR**
- Examine the principle behind counter current extraction and its advantages over other extraction methods. K4 (5)
 - 8) Explain a case study of a scale-up process for an API, highlighting the challenges and solutions encountered. K5 (10)
- OR**
- Explain the different types of distillation techniques used in API purification. K5 (10)