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School of Medical and Allied Sciences

Bachelor of Pharmacy

Mid Term Examination - Nov 2023

Duration : 90 Minutes

Max Marks : 30

Sem III - BP304T - Pharmaceutical EngineeringGeneral 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) Define the term pharmaceutical Engineering. K1 (2)
 - 2) Explain Ball mill and Hammer mill in the context of size reduction. Provide an example to illustrate the difference between the two. K2 (2)
 - 3) Summarize the significance of the "energy losses" in flow of fluids. K2 (2)
 - 4) What are the uses of ball mill? Name any two. K1 (2)
 - 5) Explain, how does the Heat transferred by conduction, convection & radiation take place? K2 (2)
 - 6) Develop strategies to minimize heat production during size reduction by mill. K3 (5)

 - 7) Distinguish between Pitot tube and Rota meter. K4 (5)
- OR**
- Examine the theory behind the Fourier's law. K4 (5)
 - 8) Explain the principles, construction, working, uses, merits and demerits of fluid energy mill. K5 (10)
- OR**
- Justify significance of Bernoulli's theorem and its applications. K5 (10)