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*Total No. of Questions : 8]* *[Total No. of Printed Pages : 2*

**Roll No .....**

# PY-405-CBCS

## B.Pharmacy, IV Semester (Non-PCI Scheme)

Examination, June 2020

## Choice Based Credit System (CBCS)

## Pharmaceutical Engineering

***Time : Three Hours***

***Maximum Marks : 75***

***Note:*** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Explain the importance of orifice meter and venturi meter for flow of fluids.

2. Write the laws governing size reduction and explain the construction, working and uses of fluid energy mill.

3. What are the different mechanisms of size separation? Explain different types of standards that are used for size separation.

4. What is Fourier's law, give the different mechanisms of heat transfer along with their applications.

5. Mention various factors affecting evaporation. Give the construction, working and uses of climbing film evaporator.

6. Write an exhaustive note on flash distillation and fractional distillation.



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7. Explain in details the theories of corrosion, its types and measures to prevent corrosion.

8. Write short notes on any three:
   a) Cyclone separator
   b) Reynolds Number
   c) Fire Hazards
   d) Conveyors

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