Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name : Pharmaceutical Industrial Process II

Subject Code : 4PS03PIP2 **Branch : B. Pharm**

Semester : 3 **Date : 01/12/2015** **Time :2:30 To 5:30** **Marks : 70**

Instructions:

(1) Use of Programmable calculator & any other electronic instrument is prohibited.
(2) Instructions written on main answer book are strictly to be obeyed.
(3) Draw neat diagrams and figures (if necessary) at right places.
(4) Assume suitable data if needed.

Q-1 **Define the following questions:** **(14)**

a) Calandria
b) Evaporation
c) Raoult's law
d) Volatility
e) Dew point
f) Distilland
g) Solvella
h) Flash distillation
i) Free moisture content
j) Dry bulb temperature
k) Compression
l) Humid heat
m) Fractional distillation
n) Tonne of refrigeration

Attempt any four questions from Q-2 to Q-8

Q-2 **Attempt all questions** **(14)**

a) Write applications of distillation in pharmacy. **(7)**
b) Explain climbing film evaporator with the help of neat labeled diagram. **(7)**

Q-3 **Attempt all questions** **(14)**

a) Discuss in detail fluidized bed dryer. **(7)**
b) Explain in detail about plate columns with respect to distillation process commonly used in pharmacy. **(7)**

Q-4		**Attempt all questions**	**(14)**
	a)	Describe the factors influencing evaporation process.	**(7)**
	b)	Describe Spray dryer with the help of neat labeled diagram.	**(7)**
Q-5		**Attempt all questions**	**(14)**
	a)	Explain applications of humidity in pharmacy.	**(7)**
	b)	Describe forced circulation evaporator with the help of neat labeled diagram.	**(7)**
Q-6		**Attempt all questions**	**(14)**
	a)	Discuss in detail constant rate ad falling rate periods.	**(7)**
	b)	Describe air conditioner with the help of neat diagram.	**(7)**
Q-7		**Attempt all questions**	**(14)**
	a)	Write a note on pressure distribution in a tablet.	**(7)**
	b)	Discuss in detail secondary treatment in industrial waste water management.	**(7)**
Q-8		**Attempt all questions**	**(14)**
	a)	Write a note on azeotropic distillation.	**(7)**
	b)	Explain single punch hand tablet machine with the help of labeled diagram.	**(7)**