

# C.U.SHAH UNIVERSITY

## Summer Examination-2019

**Subject Name : Pharmaceutical Industrial Process II**

**Subject Code :4PS03PIP2**

**Branch :B.Pharm**

**Semester : 3**

**Date : 11/03/2019**

**Time : 02:30 To 05:30**

**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.
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<b>Q-1</b>	<b>Define the following terms:</b>	<b>(14)</b>
	a) Raoult's law	(1)
	b) Fluidized state	(1)
	c) Bound Water	(1)
	d) Calendria	(1)
	e) Dalton's law	(1)
	f) Distilland	(1)
	g) Solvella	(1)
	h) Rectification	(1)
	i) Flash Distillation	(1)
	j) Free moisture content	(1)
	k) Dry Bulb temperature	(1)
	l) Humid heat	(1)
	m) Dew Point	(1)
	n) Tonne of refrigeration	(1)

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

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Describe principle, construction and working of tray dryer.	(7)
	b) Explain climbing film evaporator with the help of neat labeled diagram.	(7)
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Describe the applications of distillation in pharmacy.	(7)
	b) Write principle, construction, working, advantages and disadvantages of steam distillation on laboratory scale.	(7)
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
	a) Describe the Spray dryer with the help of neat labeled diagram.	(7)
	b) Write the various factors which influence the evaporation process.	(7)



