## **C.U.SHAH UNIVERSITY**

## **Summer Examination-2018**

Subject Name: Pharmaceutical Validation

**Subject Code:** MQA202T **Branch**: M. Pharm (QA)

**Semester:** 2 **Date:** 25/04/2018 **Time:** 10:30 To 01:30 **Marks:** 75

**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-I	Attemnt	all the following questions.	[2X10]=20
<b>~</b> -	a)	Describe in brief Calibration.	[2]
	b)	Explain the term Process Validation.	[2]
	c)	Describe briefly Retrospective Validation.	[2]
	d)	Explain the term Operational Qualification.	[2]
	e)	Describe in brief Performance Qualification.	[2]
	f)	Write the objectives of Cleaning Validation.	[2]
	g)	Describe in brief Trademark.	[2]
	h)	Explain the term Documentation.	[2]
	i)	Explain briefly Claim.	[2]
	j)	Describe briefly Statistical Process control.	[2]
	J/	Describe offerty statistical Process control.	[2]
Q-II	II Attempt any two:		[2X10]=20
	a) -	Describe in detail the equipment qualification of FBD.	[10]
	b)	Discuss in detail the performance qualification of autoclave.	[10]
	c)	Explain the validation and qualification of HVAC system.	[10]
Q-III	II Attempt any seven:		[7X5]=35
<b>C</b>	a)	Write the various phases in process validation.	[5]
	b)	Explain the validation life cycle with the help of flow chart.	[5]
	c)	Write a note validation master plan.	[5]
	d)	Describe bracketing approach during cleaning validation.	[5]
	e)	Explain the various steps for validation and acceptance criteria in	[5]
	,	wet granulation process for coated tablets.	
	f)	Describe the various types of inventions which are non-patentable	[5]
		in India?	
	g)	Write the general rules for PCT.	[5]
	h)	Write a short note on patent licensing.	[5]
	i)	Describe the benefits of IPRs to improve the quality of research work.	[5]