C.U.SHAH UNIVERSITY Summer Examination-2018

Subject Name: Pharmaceutical Validation

Subject Code: MQA202T

Semester: 2 Date: 25/04/2018

Branch: M. Pharm (QA) **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	Attempt	all the following questions.	[2X10]=20
-	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]
Q-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	Attempt	any seven:	[7X5]=35
	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 wet granulation process for coated tablets.	[5]
	f)	Describe the various types of inventions which are non-patentable in India?	[5]
	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]

