## Paper / Subject Code: 14202 / Pharmaceutics-V

		Time: 3 Hours	arks: 70
N. B	.: (1)	All questions are compulsory.	
	(2)	Figures to the right indicate full marks.	
	(3)	Draw neat labeled diagram wherever necessary.	
1	(0)	Eleborate on the validation of miving mass with a within a wall	
1	(a)	Elaborate on the validation of mixing process with a suitable example	
	(b)	Classify types of inventories and explain ABC Concept of inventory management.	
		OR	
		Explain EOQ in materials management.	
	(c)	Which are the methods used in evaluating mucoadhesive drug delivery systems?	3
	(d)	State the principle of osmotic drug delivery.	2
	(e)	What is meant by standards of purity?	2
2	(a)	Discuss the multiorifice centrifugal process of microencapsulation.	4
		OR SOLEN	
		Explain coacervation phase separation as a method for manufacture of microcapsules?	
	(b)	Illustrate layout for manufacture of film coated tablets.	4
	(c)	Give the salient features of Schedule M of Drugs and Cosmetics Act.	3
3	(a)	Briefly explain the advantages, applications and formulation of Microemulsions.	4
	(b)	How is the validation of steam sterilization conducted?	4
	(c)	Justify the need for documentation and state why it is significant.	3
4	(a)	What are the considerations in designing a pharmaceutical manufacturing facility	g <b>4</b>
	(b)	What techniques are used in statistical quality control? Explain any one.	3
	(c)	Give four examples of targeted drug delivery systems.	2
	(d)	What is the role of bioadhesive polymers in formulations for colonic use	? 2

## Paper / Subject Code: 14202 / Pharmaceutics-V

OR

Justify use of NDDS in colon targeting of drugs .

3	(a)	write a note on the need for raw material control in Quanty Assurance.	5
	(b)	Discuss any two theories of mucoadhesion.	
	(c)	Explain advantages and applications of microencapsulation with suitable examples.	
	(d)	What are the eligibility criteria for personnel working in Pharmaceutical industry?	
6	(a)	With the help of a neat diagram, explain the working of an elementary osmotic pump.	4
	(b)	Give the flowchart to explain steps involved in scale up of a tablet prepared by Dry granulation.	4
		OR OR OF THE PROPERTY OF THE P	
		Prepare a BMR for manufacture of a semi solid formulation.	
	(c)	State approaches used for drug targeting to colon and elaborate on any one.	3