Q.P. Code: 717102

(3 Hours)

[ Total Marks:70

N.E	<ul><li>3.: (1) All questions are compulsory.</li><li>(2) Draw neat diagrams wherever necessary.</li></ul>	
1.	<ul> <li>(a) Define Process validation. Explain the different types of validation.</li> <li>(b) What is the importance of the vendor audit and inventory control in the organization material management.</li> </ul>	4
	(b) Write a note on Elements of cost control in production management.	
	(c) Enlist the invitro methods to assess the mucoadhesive strength. Explain	3
	(d) Differentiate between osmosis and diffusion.	2
	(e) What is meant by Standards of Purity.	2
2.	any one method.  (d) Differentiate between osmosis and diffusion.  (e) What is meant by Standards of Purity.  (a) Give the various techniques of Phase Separation Coacervation for microencapsulation. Explain any one method.	4
		4
	(b) With reference to Schedule M, discuss on Warehousing.  OR	
	(b) Draw a neat layout scheme for Tablet manufacturing area	
	(c) Briefly discuss on Building and Premises of pharmaceutical industry on basis of cGMP.	3
3.	(a) State advantages and disadvantages of Transdermal drug delivery system.	4
٥.	What is meant by Iontophoresis and Sonophoresis.	
	(b) Define F value. Describe the steps for validating steam sterilization method.	4
	(c) State the need and importance of Documentation.	3
4.	(a) Describe the environmental factors to be considered in designing a	4
	pharmaceutical facility.	2
	<ul><li>(b) Write a note on Q.C. Charts.</li><li>(c) Define Passive and active targeting.</li></ul>	3
	(d) Discuss on bioadhesive polymers used in drug delivery.	2
	OR	
	Discuss on physiology of colon.	

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	5. (	(a) How Quality Assurance excise control on Packaging.	4
	(	(b) Define mucoadhesion. State factors influencing mucoadhesion.	3
	(	c) State the need of microencapsulation.	3
	(	(c) State the need of microencapsulation. (d) With reference to cGMP, discuss on Personnel training.	×2
	6. (	(a) Describe in detail the design and release kinetics of Elementary Osmolic	4
	(	How Quality Assurance excise control on Packaging.  b) Define mucoadhesion. State factors influencing mucoadhesion.  State the need of microencapsulation.  With reference to cGMP, discuss on Personnel training.  (a) Describe in detail the design and release kinetics of Elementary Osmobic Pump.  b) Prepare a SOP for Hot Air Oven.  OR  Discuss on Scale up studies done in manufacture of suspension.  (c) Explain on prodrug approach in Colonic drug delivery system.	4
	(	b) Discuss on Scale up studies done in manufacture of suspension.	
	(	(c) Explain on prodrug approach in Colonic drug delivery system.	3
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