10

5

Roll No. Total No. of Pages: 01  Total No. of Questions: 06  M.Pharmacy(Industrial Pharmacy) (2017 Batch) (Sem2)  PHARMACEUTICAL PRODUCTION TECHNOLOGY  Subject Code: MIP-203T  M.Code: 74933			
Time: 3 Hrs. Max. M			rks: 75
INST 1. 2.	Atte	TIONS TO CANDIDATES: empt any FIVE questions out of SIX questions. h question carries FIFTEEN marks.	
1.	a)	Write a note on area planning and floor treatment required for parenteral p	
	b)	What are the product considerations for filling of hard gelatin capsules?	7.5 7.5
2.	Write short notes on:		
	a)	Types of packaging materials	5
	b)	Spray drying	5
	c)	AHUs	5
3.	a)	What is fluidized bed coating? Mention the application techniques. Gaccount of problems encountered during coating process.	tive a brief 10
	b)	What are the characteristics of ideal package?	5
4.		Define Lyophilisation. Discuss its various stages in detail. What are the various factors which affect the process of lyophilization?	
5.	a)	Enlist the applications of mixers and discuss the utility of milling equipm solid dispersion.	ent for fine 8
	b)	Discuss in details continuous and batch mixing processes.	7

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

a) Explain in detail the tablet production process and problems encountered during the

**1** M-74933 (S31)-1310

6.

process.

b) Discuss any two water treatment techniques.