21222

3 Hours / 70 Marks

Seat No.				

15 minutes extra for each hour

Instructions:

- (1) All Questions are *compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Answer any FIVE of the following:

10

- (a) Define Galenical process.
- (b) Define filtration.
- (c) Define Pharmacopeia.
- (d) List any two uses of Active Pharmaceutical Ingredients.
- (e) Write definition of Homogenization.
- (f) Enlist different equipments used for sterilization (Any four).
- (g) Enlist different types of drugs.

2. Answer any THREE of the following:

12

- (a) Describe galenical process.
- (b) Explain any two types of dosage form.
- (c) Explain working of decanter with neat figure.
- (d) Describe Emulsification process.

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3.	Answer any THREE of the following:						
	(a)	Draw neat sketch of Silverson Type Homogenizer.					
	(b)	Explain the process of formation of Rantadine with flow diagram.					
	(c)	Describe the hot extraction process.					
	(d)	Explain the role of Active Pharmaceutical Ingredients in formaceutical					
		products.					
4.	Ans	wer any THREE of the following:	12				
	(a)	Describe goods manufacturing practices.					
	(b)	Classify the different filter media and filter aid used for filtration process.					
	(c)	State the factors influencing the rate of filtration.					
	(d)	Differentiate between sterilization and disinfection.					
	(e)	Explain the process of sterilization using radiation.					
5.	Answer any TWO of the following:						
	(a)	Write any six applications of Emulsification and Homogenization processes.					
	(b)	Write process description of Metformine with neat process flow diagram.					
	(c)	Explain with neat figure the construction and working of mixer settler.					
6.	Answer any TWO of the following:						
	(a)	Explain process description of Amoxicillin trihydrate and reaction involved in					
	<i>a</i> >	the process.					
	(b)	Explain construction and working of Mono stage centrifugal extractor with principle.					
	(c)	Describe HEPA (High Efficiency Particulate Air) filters with neat diagram.					