QP Code: 21785

[Total Marks: 70 (3 Hours) N. B.: (1) All questions are compulsory. (2) Figures to the right indicate full marks. (3) Draw neat labelled diagrams wherever applicable. 1. (a) Explain concept of 'drug' and 'dosage from'. (b) Explain the fate of drug after absorption. 2 (c) How much quantity of alcohol is required to prepare 200 ml of 30% v/v alcohol? (d) Define 'viscosity' and 'fluidity'. 1 (e) What are syrups? Enlist various methods used for preparation of syrup. Explain any one method in detail. (e) Explain solutions prepared by chemical reaction with the example of chlorinated surgical soda solution. (f) Explain dry syrup in detail. 2 (g) Enlist the types of complexes. 2 (h) Explain the term 'Intrinsic Dissolution'. 2. (a) Give reasons for the following: 3 (i) Drugs having first pass metabolism can be given rectally. (ii) Parenteral route is used in case of emergency. (b) Write a note an Ayurveda. 2 (c) Explain role of complexation in solubilization. 2 (d) What is secondary packing? Explain advantages and limitations of plastic as packing material. (e) Enlist methods used for analysis of complexes. 1 3. (a) Give GMP rerquirements for manufacturing area. 2 (b) Write a note on dilatant fluids. 2 (c) Describe in detail working of turbine mixer. (d) Give different methods for particle size measurement and explain coulter-counter method in detail. (e) Enlist various methods for measurement of diffusion. 1

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4.	(a)	Define the following (any three):-	3
		(i) Throat paint (ii) Emulsion	
		(iii) Elixirs (iv) Linctus.	
	(b)	Calculate the quantities required to prepare 400 ml solution containg	2
		Neomycin sulphate 0.1% w/v	
		Phenyl mereuric nitrate 0.002% w/v	
	(c)	Discuss selection of vehicle and organoleptic additives used in liquid	2
		oral products.	
	(d)	Name various techniques for size separation and explain elutriation	2
		method in detail.	
	(e)	Give Noyes-whitney equation and explain the terms.	2
5.	(a)	Write a note on historical background of the profession of pharmacy	2
	653.53	in India in brief.	
	(b)	Explain technique used for the measurement of flow of Newtonian	2
	181 6	fluids.	
	(c)	Give various medias of filtration. Explain membrane filter in detail.	3
	(d)	Enlist different methods for size reduction. Explain the construction	4
		and principle of operation of ball mill or hammer mill.	
6.	(a)	Write a note on development of United States Pharmacopoeia.	2
	(b)	Explain the term 'bioavailability'.	2
	(c)		4
	, ,	OR	
	(c)	Discuss the packaging materials used for liquid oral dosage forms.	4

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(d) Write a note on powder mixing.