Sem III CBS GS Phormacentics - I

Morch 2015

QP Code: 15930

[ 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) What is the scope of Pharmaceutics in Pharmacy? 2 (b) Define 'Distribution'. Enlist factors affecting distribution. (c) Calculate the quantities required to prepare 750 grams of ointment containing. Zinc oxide 0.2% w/w Calamine 0.1% w/w (d) Draw a plot of shear rate versus shear stress for Dilatant fluid. 1 (e) What are elixirs? Discuss in brief the method of preparation of elixir. (f) Write in brief about dusting powders. 2 (g) What are organic molecular complexes? Enlist the types of organic 2 molecular complexes. (h) Enlist the factors affecting dissolution. 1 2. (a) Compare and contrast oral and rectal route of drug administration. 3 2 (b) Write a note on alternate system of medicine with reference to Ayurveda. (c) Explain the importance of evaluating polymorphism during 2 preformulation study of monophasic liquid dosage form. (d) Describe the closure liners used in packaging. 3 (e) Enlist the methods of analysis of complexes. 1 3. (a) Explain GMP with respect to personnel. 2 (b) Differentiate between Newtonian & Non-Newtonian systems. 2 (c) Explain in brief about impellers used in liquid mixing. (d) Explain the significance of particle size determination in Pharmaceutical formulation and explain the sedimentation method of particle size determination. (e) Explain steady state diffusion. 1

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4.	(a)	Define any three:	J
		(i) Poultice (ii) Suspension (iii) Pastilles (iv) Lozenge.	
	(b)	A 20 ml of 5% w/v dextrose solution is diluted 5 times. Find out %	2
		w/v of dextrose in the diluted solution?	
	(c)	Discuss the stabilizers used in liquid preparations.	2
	(d)	Enlist all methods of size separation and explain cyclone separator.	2
	(e)	State and explain the Hixson-Crowell law.	2
5.	(a)	Give an overview of the status of Pharmaceutical industry in India.	2
	(b)	Explain the principle and working of Ostwald viscometer.	2
	(c)	Write in brief about the filter press.	3
	(d)	Explain the principle and working of ball mill.	4
		OR	
	(d)	Explain in brief the principle and working of fluid energy mill.	4
6.	(a)	What is Pharmacopoeia? Write in brief about the development of I.P.	2
	(b)	Explain the term "relative bioavailability".	2
	(c)	Write in brief about large scale manufacturing of monophasic liquid	4
	7 (5)	dosage form.	
		OR	
	(c)	Explain the quality control tests for liquid dosage forms.	4
	(d)	Write in brief about quality control powder dosage form.	3
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