## Seon IV CBSGS Pharmaceutros -I

Morch 2015

QP Code: 15849

[Total Marks: 70 (3 Hours) All questions are compulsory N.B: (1)Figures to the right indicate full marks (2)Draw neat sketches wherever required. (3)1. (a) Classify disperse systems. Comment on kinetic stability of dispersed systems. 2 (b) State various routes of drug penetration through skin. (c) Define suppositories. What are the advantages of suppositories as a closage form? (d) What are the salient features of blood banking procedure? 2 3 (e) Outline the test for tensile strength of Catgut. (f) What are the pharmaceutical applications of emulsions? 2. (a) With suitable layout explain the large-scale manufacturing of suspensions and elaborate on any one equipment. (a) Give account of quality control tests and stress testing of emulsions. (b) Elaborate on Glycero-gelation suppository bases. (c) Enlist various non-absorbable sutures. Write on non-absorbable suture of animal origin. 3. (a) Explain the following phenomenon in suspension: (ii) Electric double layer (i) Wetting (b) Write a note on: Plasma pheresis OR Gamma globulin (c) Outline the liquification test of suppositories. 4. (a) Give an account of raw materials used in semisolid preparations. 4 (b) Explain emulsifier selection by HLB method. (c) Commercian molecular weight requirements of dextran and write labeling directions for dextran products. OR (c) What are the steps invoved in production of clinical grade Dextran by fermentation?

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5.	(a)	Justify - the rheology modifiers and electrolytes play key role in suspension
		formulation.
	(b)	Write in detail on quality control tests for gels.
	(c)	Give an account of manufacturing of suppositories by compression
		moulding.
		OR
	(c)	Discuss the problem of hygroscopicity and rancidity in suppositories bases.
6.	(a)	How the Catguts are sterilized?
	(b)	Explain the instability symptoms in emulsions.
		OR
	(b)	Creaming is reversibile where as breaking is irreversible. Comment.
	(c) (	Classify various penetration enhancers with their mechanism of actions.