Q.P. Code:01616

[Time: 3 Hours] [Marks:70]

Please check whether you have got the right question paper.

N.B:

- 1. **All** questions are **compulsory**.
- 2. Draw neat labelled diagrams wherever required
- 3. **Figures** to the **right** indicate **full marks**.

Q.1	Answer the following		
	a.	Classify and comment on the stability of dispersed system.	03
	b.	Enlist different factors affecting skin penetration.	02
	C.	Define suppositories. Enlist the factors affecting rectal absorption.	03
	d.	What is the need for blood products?	02
	e.	Name the quality control tests performed on ligatures. Explain how diameter of ligature is	03
		determined	02
	f.	Give pharmaceutical applications of emulsions.	
Q.2	a.	Discuss quality control tests for suspensions	04
		Enlist different equipment used in production of emulsions and elaborate on homogenizers	04
	b.	Give classification of suppository bases and describe properties of ideal suppository base	04
	C.	Write a note on non absorbable sutures of natural origin.	03
Q.3	a.	What are flocculated and deflocculated systems? Explain how change on particle plays a role in	04
		creating these systems.	04
	b.	Write a note on Plasmapheresis	
		Albumin preparations.	04
	C.	Explain any one quality control test for suppositories	03
Q.4	a.	Give an account of raw materials used in formulation of semisolids	04
	b.	Classify emubifying agents. Explain any one mechanism of droplet stabilization.	04
	c.	Explain the need and desired properties of plasma volume expanders.	03
		CONTRACTOR TO CO	
	ST. A	Give an account of dextran as plasma substitute	03
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Q.5	a.	Discuss the Dispersion methods for preparation of suspensions.	04
	b .	Elaborate on large scale manufacturing of ointments.	03
	c.,	Discuss problems encountered in using theobroma oil as suppository base and measure taken to	04
		overcome the same.	
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		Describe large scale manufacturing of suppositories.	04
Q.6	a.	Explain the process of sterilization of Catgut.	03
	8 b.	Elaborate on preservation of emulsions.	04
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		What do you mean by creaming Flocculation and coalescence? How are these Phenomena related to each other?	04
		What are penetration enhancers? Classify penetration enhancers according to their mechanism and give examples of each class.	04