## Q.P. Code:01615

## [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 labeled diagrams wherever required
- 3. Figures to the right indicate full marks.

Ų.I	Answe	the following	Dr. Dr.
	a)	Formulating a stable disperse system is a challenge to the formulator, Comment.	03
	b)	Name the methods to evaluate skin penetration. Give two examples of penetration enhancer	02
	c)	Give the advantages and disadvantages of suppositories	03
	d)	State the problems associated with blood products.	02
	e)	How is sterility of ligatures evaluated	03
	f)	Define Emulsions and discuss its advantages	02
Q.2	a)	Explain in detail any one equipment used in large scale manufacturing of suspensions  OR	04
		Discuss in detail Quality Control of Emulsions.	04
	b)	Enlist the specifications of suppository bases and give the significance of any two specifications	04
	c)	Write a note on metallic wires used as sutures	03
Q.3	a)	Describe the theoretical aspects of Sedimentation and Rheology in suspensions	04
	b)	Write a note on quality control aspects of blood products	04
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		Write a note on Red Cell concentrate	04
	c)	Explain the Disintegration Test for suppositories	03
Q.4	a)	Give an account of Formulation additives in Semisolids	04
	b)	Name the various methods for selection of emulsifiers and explain any one in detail.	04
	c)	Write a note on preparation of Dextran as a Plasma substitute  OR	03
	A.A.	Write a note on hydrolyzed gelatin based products as plasma substitutes	03
Q.5	(a)	Discuss the Precipitation method for preparation of suspensions.	04
	b)	Outline the large scale manufacturing of creams	03
	( c)	Explain any one equipment for large scale manufacturing of suppositories  OR	04
		Elaborate on problems encountered during formulating suppositories.	04
Q.6	(a)	Describe the methods of sterilization of Catguts	03
	(b)	Write a note on Auxiliary Emulsifiers.	04
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30 Tr. 10		Discuss Physical Stability of Emulsions	04
		Write in detail on Penetration Enhancers	04