

Sum-18

T 2.4.1 Pharmaceutics - IV (Physical Pharmacy - II) (2410) (Also Old Sem.- IV Equivalence) (T 241)

P. Pages: 2

Time: Three Hours

## Instructions to Candidates:

1.

- What is HLB. Write it's

## 2. Solve any four of the fold

20

- Explain electrical properties of interface.
- detail free & blythe method.
- note on method to determine HLB.
- classify viscometer. Explain in detail falling sphere viscometer.

Write a note on zero order kinetics.

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P.T.O

	3.	Solve any one of the following.		
		a)	State & Explain in detail different methods used to determine order of reaction.	
		b)	Define surface tension & interfacial tension Explain in detail measurement of surface tension & interfacial tension.	
			SECTION - II	209
	4.	Sol	ve any five of the following.	2610
		a)	Difference between flocculated & Deflocculated suspension.	
		b)	ve any five of the following.  Difference between flocculated & Deflocculated suspension.  Define & classify in brief about emulsion.  What are derived properties. Enlist various derived properties.  Write the application of donan membrane equation.  Define micromeritics. Write it's application.  What is electrophoresis.  Write in short about preservation of emulsion.  ve any four of the following.  Write a note on kinetic properties of colloids.	
		c)	What are derived properties. Enlist various derived properties.	
		d)	Write the application of donan membrane equation.	
		e)	Define micromeritics. Write it's application.	
		f)	What is electrophoresis.	
		g)	Write in short about preservation of emulsion.	
	5.	Sol	ve <b>any four</b> of the following.	20
		a)	A P	
		b)	Define optical microscopy & gives it advantages & disadvantage.	
		c)	Write a note on Faraday's & tyncol effect.	
		d)	Explain theories of emulsification.	
		e)	Write a note on physical tability of emulsion.	
		f)	Give in detail theory of sedimentation.	
	6.	Sol	ve any one of the following.	10
		a)	Explain in tail DLVO theory, along with it's significance.	
		b)	What we colloids. Write in detail optical & kinetic properties of the colloids.	
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