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Paper Id:	238371		Roll No.									
ps://pharm	acyindia.co.ir	B PHARM	M									
	(SE	CM IV) THEORY EXAN	IINATIO	N 2	022-	23						
		PHYSICAL PHARMA	ACEUTIC	CS-I	Ι							
Time: 3 Hours				Total Marks: 75								
Note: Atte	mpt all Sectio	ns. If require any missing	data; then	cho	ose	suit	tabl	y.				
		SECTION	A https	://p	harn	nac	yind	dia	.co	.in/		
1. Atte	empt <i>all</i> ques	tions in brief.								10 :	x 2	= 2
(a) De	fine the term '	'coacervation" in colloids										

- (b) Write down the Schulze -Hardy rule with an example.
- (c) What is kinematic viscosity?
- (d) What is negative thixotropy?
- (e) What are multiple emulsions?
- (f) Define the term HLB.
- (g) What is angle of repose?
- (h) Differentiate between true density and bulk density.
- (i) Differentiate between a pseudo-zero order and first-order reaction.
- (i) What do you mean by the term "Photolytic degradation" of a drug?

SECTION B

2. Attempt any *two* parts of the following:

- (a) Illustrate various non-Newtonian systems including plastic, pseudoplastic, dilatant, and thixotropy in pharmaceutical formulations with proper rheograms.
- (b) Explain different types of deformation of solids, elastic modulus, and Heckel's equation in detail.
- (c) Describe in detail about the methods for determining surface area of particles. https://pharmacyindia.co.in/ SECTION C

3. Attempt any *five* parts of the following:

- (a) Illustrate the optical and kinetic properties of colloidal dispersion.
- (b) Explain any one method for determination of viscosity of Newtonian systems in detail.
- (c) Discuss the various signs of instability in emulsion and methods for its preservation.
- (d) Differentiate between flocculated and deflocculated suspensions and methods for formulating any suspension.
- (e) Describe the working principle and method for particle size determination using the Andreasen pipette apparatus with its labelleddiagram.
- (f) Derive the equation for zero-order reaction and determine the half-life and shelf life of any zero-order reaction using the same equation.
- (g) Explain the method involved in the accelerated stability testing for determination of expiration dating of any pharmaceutical dosage form.

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= 20

 $2 \times 10 = 20$

122.32

 $5 \ge 7 = 35$

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