Seat Number	PANKH-36
Physical	P-403T Pharmaceutics-II 724403)
Time: 3 Hours	Max Marks : 75
Note: (1) Do not write anything	on question paper except seat no.
(2) Graph or diagram sh writing paper or blac	uld be drawn with the black ink pen for HB pencil.
	no supplement will be provided.
(4) All questions are com	
(5) Figures to the right	ndicate full marks.
1. (A) Choose the correct answ	r of the following:
(i) Faraday Tyndall e	fect is observed by
(a) Light micros	opy (b) Ultramicroscope
(c) Radiography	(d) None of these
(ii) Property of fluid the	nt describe its internal resistance is known
as	
(a) Viscosity	(b) Friction
(c) Resistance	(d) Internal energy
(iii) Microscopic particle	can be separated by
(a) Ultra Filtrat	on (b) Filtration
(c) Dialysis	(d) All of these

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		ia used as	3						
(iv)	Coll	oids of copper is used as	(b)	Antibiotics					
	(a)	Anticancer	(d)	None of these					
	(c)	Antibacterial	iove r	ange can be found by gravity					
(v)	The	particle size in such s	in						
	sedimentation as expressed in Ohm's law								
	(a)	Van't hoff factor	(0)	Graham's law					
	(c)	Stokes' law	(d)	Granam's rememon of					
(-3)	Dila	tant flow is characterize	ed as a	reverse phenomenon of					
(vi)	(a)	Newtonian flow	<i>(b)</i>	Plastic flow					
		Pseudoplastic flow	(d)	Rheopexy					
(vii)	Silica gel is an example for the type of gel								
	(a)	Dilatant	(b)	Elastic					
	(c)	Rigid	(d)	Thixotropic					
(viii)	Duri	ng storage crystal grov	wth is	observed in a suspension due					
to									
	(a)	Absorption of water							
	(b) Fluctuation in the ambient temperature								
	(c)	Presence of suspendi	ng ag	gent					
	(d)	Volatilization of solid	l						
(ix)	(x) Usually the rate of chemical may be enhanced by								
	(a) Cooling the reaction mixture								
	<ul><li>(b) Increasing the rate of stirring.</li><li>(c) Raising the temperature of the reaction mixture.</li></ul>								
	(d)	Using Stoichiometric	quant	ities of each reactant.					
				100 th					

		(ix)	When Coulter-counter apparatus is employed for powder analysis			
			the following criterion is important?			
			(a) Dispersion medium should be coloured.			
			(b) Dispersion medium should be conduction.			
			(c) Suspended particle should be charged.			
			(d) Suspended particle should be spherical.			
	(B)	Answ	er following questions:			
		(i)	Differentiate between flocculated and deflocculated suspension.			
		(ii)	What is HLB? Write its importance.			
		(iii)	Define Rheology. Gives its four applications.			
		(iv)	Give Heckel equation.			
		(v)	Explain in brief gold number.			
2.	Atten	npt an	y two:			
	(i)	Defin	ne Colloids. Write in detail Optical and Kinetic properties of	f		
		Collo				
	(ii)	What	t is micromeritics? Enlist various method to determine particle	е		
		size. Explain Coulter-counter method in detail.				
(iii)		Explain objective and various methods for accelerated stability				
		testii		-		
3.	Atten	npt ar	ny seven :	5		
	(i)	Expl	ain in detail theories of emulsification.			
	(ii)	Disci	uss Newtonian System in detail.	0		
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- (iii) Explain the concept of Electric Double Layer.
- (iv) Explain in detail method of preparation of Suspension.
- (v) Write a note on Sieving method.
- (vi) Give in detail derived properties of powder.
- (vii) Give in detail DLVO theory.
- (viii) Write a note on Faradays Tyndall effect.
- (ix) What is thixotropy? Give its measurement.

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