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BP 502 T

Roll No. of candidate				

2021

## B.Pharm. 5th Semester (Regular) End-Term Examination

Pharmacy

## INDUSTRIAL PHARMACY - I

(New Regulation)

(w.e.f 2017 - 18)

Full Marks - 75

1.

Time - Three hours

## The figures in the margin indicate full marks for the questions.

for the questions.						
Ans	wer a	all the questions:		$(20 \times 1 = 20)$		
(i)	DL	S is used for determining				
	(a)	Particle size	(b)	Crystallinity		
	(c)	Functional groups	(d) .	Shape		
(ii)	Parti	ial or complete separation	of top	or bottom crowns of a tablet is		
	(a)	Lamination	(b)	Mottling		
	(c)	Capping .	(d)	Picking		
(iii)	The	creamy appearance of shamp	ooo is d	ue to		
	(a)	Pearlizers and opacifiers	(b)	Conditioning agent		
	(c)	Aesthetic additives	(d)	None of the above		
(iv)	Diss	solution Test Apparatus type-	I USP	is		
	(a)	Basket type	(b)	Paddle type		
	(c)	Paddle over disc	(d)	All of the above		

(v)	one part of solute is							
	(a)	30-100	b)	10-30				
	(c)	100-1000	(d)	Less than 1				
(vi)	According to Biopharmaceutics Classification System (BCS), Class II drugs have ———							
	(a)	High solubility/High permeabil	ity	DESCRIPTION OF THE SECOND				
	(b)	Low solubility /High permeability	ity					
	(c)	High solubility /Low permeability	ity					
	(d)	Low solubility /Low permeability	ty					
(vii)	Acc	elerated stability testing is done	to_					
	(a)	Predict shelf of the formulation						
	(b)	Predict dissociation constant						
	(c)	Predict diffusion constant						
	(d)	Determine activation energy						
(viii	) Dry	Gum Method is also known as						
	(a)	Continental method	(b)	English method				
	(c)	Bottle method	(d)	Forbe's method				
(ix)	The	e role of Zinc pyridinium thiol N-o	oxid	e in shampoos as				
-	(a)	Surfactant	(b)	Conditioning agent				
	(c)	Preservatives	(d)	Anti-dandruff agent				
(x)	Foll	Following are the examples of O/W emulsion except						
	(a)	Milk	(b)	Shaving cream				
	(c)	Cold Cream	(d)	Vanishing cream				
(xi)	In the preparation of eye drops involves multiple steps. The correct sequence of these steps are							
	(a)	) Preparation, Clarification, Filling, Sterilization						
	(b)	(b) Preparation, Filling, Clarification, Sterilization						
	(c)	(c) Preparation, Sterilization, Clarification, Filling						
	(d)	Sterilization, Preparation, Clar	rific	ation, Filling				

	(XII) —	Is a seaming agent.					
	(a)	PVP	(b)	Shellac			
	(c)	Starch	(d)	Lactose			
	(xiii) Fau	lty engraving by punches is _					
	(a)	Lamination .	(b)	Mottling			
	(c)	Capping	(d)	Double impression			
	(xiv) SPF	stands for					
	(a)	Sun Permeation Factor	(b)	Sun Product factor			
	(c)	Sun Perfection factor	(d)	Sun Protection factor			
	(xv) The relationship between pH and the solubility and pKa value of an acting is given by————						
	(a) Henderson Hasselbalch equation						
*	(b)	Bragg's Equation					
	(c) Noye's Whitney Equation						
	(d)	All of the above					
(xvi) Which is the correct flow of action in punching of tablets?							
	(a)	Die Filling, Fill-Weight Management, Compaction, Ejection					
	(b)	Fill Weight Management, Ejection, Die Filling, Compaction					
	(c)	Fill Weight Management, Die Filling, Compaction, Ejection					
	(d)	d) Compaction, Ejection, Die Filling, Fill Weight Management					
(xvii) Which type of inhaler is propellant free?							
	(a)	MDI	(b)	SVN			
	(c)	DPI	(d)	None of the above			
	(xviii) X-	ray diffraction pattern indicat	es				
	(a)	(a) Solubility (b) Crystallinity					
	(c)	Functional groups	(d)	Permeability			

## (xix) Which is not the glass test? Water attack test Water vapor permeability (a) (b) Arsenic limit test (c) (d) Light transmission test (xx) Which of the following is not used as diluents? Lactose (b) Microcrystalline cellulose (a) Calcium Carbonate (d) Poly Vinyl Pyrrolidone (c) Answer any Seven: $(7 \times 5 = 35)$ Highlight different Pelletization Techniques. Explain the filling principles of hard gelatin capsules. (b) (c) Explain the approaches to increase the solubility of a drug. Write a short note on manufacturing defects of hard gelatin capsule. (d) (e) Write a short note on container and closures used for parenteral products. (f) Describe the tablet processing problems and their remedies. (g) Explain the quality control test employed for evaluating both in-process and finished tablets. Write a short note on evaluation of suspension stability. Briefly explain the methods adopted for evaluation of parenteral (i) preparations. Answer any Two: $(2 \times 10 = 20)$ Explain briefly the formulation and manufacturing of aerosol. Write a short note on quality control and stability studies of aerosols. (5+5=10)Write a short note on materials used for Pharmaceutical Packaging. Briefly (b) explain the quality control tests for glasses used in pharmaceutical packaging. (5+5=10)

 $(4 \times 2.5 = 10)$ 

- (i) Vanishing Cream
- (ii) Tooth pastes
- (iii) Lipsticks
- (iv) Sunscreens

2.

3.