(c)

Sugar Coated tablet

B	P 50	2 T				
Ro	ll No.	of ca	indidate			
			2023	Library, GCU		
			B.Pharm. 5th Semester End-Term Examinat	ion		
	ř					
			(Regular)			
			INDUSTRIAL PHARMACY - I			
Fu	ll Maı	ks –	75	Time - Three hours		
779			The figures in the margin indicate full marks			
			for the questions.			
1.	Mu	ltiple	choice questions (MCQ) (Answer all questions):	$(20 \times 1 = 20)$		
	(i)	The ratio of void volume to bulk volume is known as				
	. Xiie	(a)	Bulk density (b) Tapped density			
		(c)	Porosity (d) Granule volume			
	(ii)	Ha	usner Ratio is ———			
		(a)	Tapped density / Bulk density			
		(b)	Bulk density / Tapped density			
		(c)	Bulk volume / Void volume			
		(d)	Void volume / Bulk volume			
	(iii)	Acc	ording to Bio-pharmaceutics Classification System (le	BCS), Class II drugs		
		(a)	High solubility/High permeability			
		(b)	Low solubility High permeability			
		(c)	High solubility /Low permeability			
		(d)	Low solubility /Low permeability			
	(iv)	Which of the following tablet are formulated to prevent drug release in stomach?				
		(a)	Enteric coated tablet (b) Film coated tablet			

Chewable tablet

(d)

(v)	Wh	ich of the following tablet	is als	so called as ball's-eye tablet —			
	(a)	Sugar coated tablet	(b)	Chewable tablet			
	(c)	Inlay Tablet	(d)	Lozenges			
(vi)	Wh	ich of the following is not	used	as diluents?			
	(a)	Lactose	(b)	Microcrystalline cellulose			
	(c)	Calcium Carbonate	(d)	Poly Vinyl Pyrrolidone			
(vii)	Adh	nesion of tablet material to	o die	wall is called			
	(a)	Mottling	(b)	Sticking			
	(c)	Picking	(d)	Capping			
(viii	To a	hich of the following is not used as diluents?  Lactose  (b) Microcrystalline cellulose  Calcium Carbonate  (d) Poly Vinyl Pyrrolidone  dhesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (heaping  (hesion of tablet material to die wall is called  (heaping  (hesion of tablet material to die wall is called  (heaping  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material to die wall is called  (hesion of tablet material promed is known as die known					
	(a)	Hardness test	(b)	Disintegration test			
	(c)	Friability test	(d)	None of the above			
(ix)	Can	n tracks are used in table	t for				
	(a)	Feeding the granules					
	(b)	Adjusting shape					
	(c)	Guiding movement of pu	inche	s de la companya del companya de la companya del companya de la co			
	(d)	Compress the granules					
(x)	repared by which technique						
	(a)	Homogenization	(b)	Dialysis			
	(c)	Freezing	(d)	Centrifugation			
(xi)	In Dry gum method, 4:2:1 consist of————						
	(a)	4 parts oil, 2 parts water	l 1 part emulsifier				
(b) 4 parts water, 2 parts oil				l 1 part emulsifier			
	(c)	4 parts emulsifier, 2 parts water, and 1 part emulsifier					
	(d)	4 parts oil, 2 parts emulsifier and 1 part water					
(xii)	Sul	phur dioxide is used in gel	latine	e preparation ————			
-	(a)	As colouring agent	(b)	To prevent decomposition			
	(c)	To reduce bitterness	(d)	All of the above			
(xiii	) Thi	omersal is used in parente	eral p	oroducts as ———			
	(a)	Buffer	(b)	Antimicrobial agent			
	(c)	Antioxidant	(d)	Chelating agent			
(xiv	The	pyrogenic activity of pyro	gens	is associated with ————			
	(a)	O-antigenic side chain	(b)	Lipid A portion			
	(c)	Central polysaccharide	(d)	All of the above			

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(5)						
Discuss dry granulation technique and list out advantages and disadvantages.						
Describe the importance of partition co-efficient in the drug design with suitable examples.						
What are the sources of contamination in parenteral production and write methods to overcome						
Explain two filling methods in manufacturing of pharmaceutical aerosols.						
What are the factors to be considered for formulation of eye lotion?						
Write the formulation and manufacturing consideration of elixirs.						

2.

3. Long answer (Answer any two)

- $(2 \times 10 = 20)$
- (a) Explain pre-formulation studies involved in development of tablet dosage forms. Give a detailed account of the different excipients and their functions used in the tablets. (5+5)
- (b) Explain the steps involved in manufacturing of hard gelatin capsules shells. Explain the quality control tests of capsules. (5 + 5)
- (c) Explain the formulation of eye drops. Write a short note on containers used for packaging ophthalmic preparations. (5 + 5)