Dur	ation: (3 hours)	[Total Marks: 7:
N.B.:	2. Draw neat and well labeled diagrams wherever necessary.	Sylvania Straight
	3. Figure to the right indicate full marks.	
0.1.	Multiple Choice Questions (MCQs)	ST SS
	aillard reaction is an incompatibility seen with-	60 47
a.	Starch Starch	
b.	Lactose	
	Microcrystalline cellulose	
d.	Calcium carbonate	
0 F1		
	e following test is not applicable for sugar coated tablets as per IP.	A . SV
a. b.	Weight Variation Hardness	
c.	Disintegration	
	Dissolution	4
u.	Dissolution	
3. W	nich of the following is a super-disintegrant?	4, 60,
a.	Microcrystalline cellulose	(C)
b.	Sorbitol	
c.	Avicel S S S	
d.	Croscarmellose	A ST
C.		8
4. Ch	oose the incorrect type of tablet tooling.	
a.	BB ST ST ST ST ST	
b .	DB A	\$ P.
c.	DD ST ST ST	4
d.		S. V.
5 P-	11, P-12 and P-114 are examples of class of propellants?	
a.	Hydrocarbons ————————————————————————————————————	y
b.	Chlorofluorocarbons	
c.	Compressed gases	
d.	Hydrogenated gases	
200		
6. W	ater stored in a poor-quality glass for a prolonged duration is likely	to turn
φ a.	alkaline	
b.	acidic A	
c.	neutral	
d.1	no change	
(E)		
70 Pa	ngollt vium ablanda is yead be a	
	nzalkonium chloride is used as ain parenterals Preservative	
a. b.	Antioxidant	
c.	Solubliser	
d.	Cosolyent	
u.	Cosoffeit	

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8.		wing dosage form will have maximum bioavailability?		
	a. Parenteral			
	o. Tablet			
	c. Capsule			
	d. Emulsion			
0 1	AT 4-4:16-			
	AL test is used fo . Viral load	r the detection of		
	. Viral load . Bacterial Endot	ovino A		
		ram positive bacteria		
	I. Impurities in pa			
`	. Impurities in pr	Entertains 2 A S		
10. Which method is most suitable for sterilization of thermosensitive parenterals?				
	. Membrane Filt			
1	. Dry heat			
(. Moist heat	A A A		
(. Boiling			
	6			
11.		ive bacteria is generally found to be present in ophthalmic products?		
2	a. Escherichia co			
5	b. Pseudomonas i			
1	c. Staphylococcu			
1	d. Streptococcus	oneumoiae (
10				
		wing capsule size number has the maximum capacity?		
	000			
135	0. 1	2 B B B B		
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
) *	1. (3)			
13	dentify the incorre	ect step in manufacturing of empty hard gelatin capsule shells.		
	a. Coating	Act step in manufacturing of empty nara getatin capsure shens.		
7	o. Dipping			
04	c. Spinning			
	d. Trimming			
	47,			
14.	One of the followi	ng is an alternate for gelatin in vegetarian capsules		
4	a. Sucrose			
20V	o. HPMC			
7	c. Acacia			
	d. Bentonite			
1.5				
15. BET method is used to determine.				
	n. Partition coeffi	cient		
\vee	o. Surface Area	Santa AY		
	c. organoleptic p			
	d. Intrinsic dissol	ution		
	2	SV 50V		

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16. Carr's index gives an indication of a. viscosity b. flow property c. aqueous solubility d. very poor 17. Shake flask method using two immiscible solvents (oil/water) is used to determine a. Flow property b. organoleptic property c. Intrinsic Dissolution d. Partition coefficient 18. Flocculating agent is used in a. syrup b. suspension c. aromatic waters d. mouth wash 19. Beeswax is the major ingredient in a. shampoo b. lipstick toothpaste d. cold cream 20. Dry gum method is used to manufacture a. syrup suspension aromatic waters emulsion Answer any 2 questions. $2 \times 10 = 20M$ Enlist different types of tablets. Write a note on dry granulation technique of manufacturing tablets. Elaborate on the different techniques used for the preparation of Water for Injection 3. Discuss polymorphism and solid state stability studies done during preformulation stage of drug development.

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Q.3. Answer any 7 questions.

 $7 \times 5 = 35M$

- 1. Give an account of defects in film coated tablets.
- 2. Describe advantages and working of a metered dose inhaler.
- 3. Differentiate between glass and plastic as packaging materials for pharmaceuticals.
- 4. Explain important factors to consider when formulating ophthalmic products.
- 5. Elaborate on quality control testing for injectables
- 6. Elaborate on the process of filling hard gelatin capsules using independent filling equipment.
- 7. Explain various studies done to determine solubility profile of a drug
- 8. Write a short note on toothpaste.
- 9. Write a note on manufacturing techniques of pellets.

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