Durat	tion: (3 hours)			[Total Ma	rks: 75]
N.B.:	1. All questions are compulso 2. Draw neat and well labeled	diagrams where	ver neces	sary.	201730
	3. Figure to the right indicate	e full marks.		ESE.	Sy Dr
0.1	Multiple Choice Questions (M	MCOs)	43		
	Content Uniformity test is appl		hen drug	content is	_ of the total
	tablet or capsule weight.		, O		
	a. less than 10 mg or 10%				
	b. less than 20 mg or 20%				
	c. more than 10 mg or 109				
	d. more than 20 mg or 20%	% 36		× 07/01	
2.	Arching and rat-holing are prob	blems associated w	ith	_ of powder b	end.
	a. non-uniform drug mixing				Dr D
	b. weight variation			S S	
	c. poor flow properties				
	d. poor mixing				
3	Which of the following step is	not a part of wet gr	ranulation	?	Sy Sold
S	a. Slugging	1100 th Pun (01 11 to 81			
	b. Blending			5) 3	
	c. Milling				
	d. Wet massing	7			
4.	Collection of wax on a sugar-co	oated tablet is calle	ed as	10° 13°	
	a. Marbling				
	b. Orange peel effect	167		F.O'	
	c. Blooming				
	d. Sticking-Picking				
	25 FT 160			3	
5.	Ozone depletion is the main dra	awback ofpro	pellants.		
	a. Hydrocarbons				
	b. Chlorofluorocarbons				
	c. Compressed gases				
3	d. Hydrogenated gases	B (6)			
6.	The hydrolytic resistance of typ	ne II glass is increa	sed by tre	eating it with	
0.	a. Sulphur	pe ii giass is increa	scu by tic	ating it with	
	b. Phosphorous	2007			
E,	c. Freon				
	d. Sodium				
7.	Oil and water phase are mixed	at 70°C in the man	ufacturing	g of a	
3	a. cream			ə · - ···	
	b. shampoo				
	The state of the s				

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	c.	toothpaste
	d.	lipstick
8.	Type A	A gelatin in obtained by of dry bones or skin.
	a.	
		Alkaline treatment
	c.	Ester hydrolysis
	d.	Amide hydrolysis
9.	The ab	oility of a compound to crystallize in multiple forms is known as
<i>)</i> .	a.	Anisotropy
	b.	Polymorphism
	c.	Polymerization
	d.	Racemization
	۵.	
10	Idantif	ication test for emulsion is
10.		Re-dispersibility test
	a. b.	Dilution test
	c.	Particle size changes
	d.<	Sedimentation volume
	<u>.</u>	Sedimentation volume
11.		density gives estimate of interparticle pores and void spaces.
	7 a.	Bulk
	b.	Tapped
	C.	True
	d.	Apparent Bulk
12.	pKa de	etermination helps in analysing of a drug.
		percent ionized and unionized fraction
9	b.,	percent water and lipid soluble component
	c.	Surface charge
	d.	Solid and solution state stability
13.	Distill	ation is one of the methods of preparation of
	a.	Water for Injection
	b.	Emulsion
	c.	Eye drop
	d.	Ear drops
1.4	The fe	Howing route of administration gives 1000/ hisavailability
14.		llowing route of administration gives 100% bioavailability. Intradermal
	a.	Intradermai
	b.	Subcutaneous
	c. d.	Intravenous
	u.	Hillarchous

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15. In freez	e drying process, moisture is removed by a process of -
	Sublimation
b.	Congealing
c.	Evaporation
d.	Crystallization
16. Injectio	n of a highly hypertonic solution can lead to
a.	Shrinkage of blood cells
	Bursting of blood cells
	No effect on cells
d.	Reduction in the plasma volume
	of the following plasticizer is preferred in capsule manufacturing?
	Lactose
	PVP
	PEG ST
d.	Sorbitol
10.75	
	the incorrect step in manufacturing of empty hard gelatin capsule shells.
	Coating
	Dipping
	Spinning
~ √g′. ,	Trimming
10.0	
	the following physical forms of a drug shows rapid dissolution and absorption in
	compared to others-
	Crystalline
	Hydrous
	Amorphous Mixed
d. 1	WHACH
20 Which	gram-negative bacteria is generally found to be present in ophthalmic products?
(a)	Escharichia coli

Streptococcus pneumoiae

b. Pseudomonas aeruginosa

Q.2. Answer any 2 questions.

 $2 \times 10 = 20M$

- 1. Enlist merits and demerits of tablets. Write a note on excipients used in tablets.
- 2. Provide a comprehensive explanation of the production facilities used in the manufacturing of parenteral products.
- 3. Discuss drug-excipient compatibility studies and solid-state stability studies done during preformulation stage of drug development.

Q.3. Answer any 7 questions.

 $7 \times 5 = 35M$

- 1. Describe evaluation of parenteral suspensions.
- 2. Write a short note on ophthalmic ointment bases.
- 3. Explain steps in sugar coating of tablets.
- 4. Elaborate on two phase and three phase system in aerosols.
- 5. Write in brief about blister packaging of solid unit dosage forms.
- 6. Justify importance of polymorphism studies in preformulation.
- 7. Discuss all the ingredients used in the formulation of a lipstick.
- 8. Explain QC tests for hard gelatin capsules as per IP.
- 9. Elaborate on the glass containers used in parenterals and discuss tests to distinguish between them.
