*Exam Date & Time: 03-Mar-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Industrial Pharmacy I [PCE-BP502T]

Marks: 75	v k =====1	Duration: 180 mins.				
	I Multiple Choice Questions (MCQs)					
Answer all t	the questions.	Section Duration: 30 mins				
1)	One of the following is an example for pseudomorph.					
	Crystal Amorphous	(1)				
	2) Crystal shape 3) d)	4) Hydrates				
2)	During formulation development, mass flow is related to					
	Angle of 1) repose 2) Particle size 3) Bulkiness 4	Flow of powders in hoppers				
3)	During preformulation studies, Solubility is studied at°C					
	1) 25 2) 37.5 3) 4 and 37	4) 4 (1)				
4)	API belonging to Ester category normally undergoes	(1)				
5)	Oxidation 2) Hydrolysis 3) Polymerisation	4) Reduction (1)				
	"Difficult to reverse physiologic effect" is a drawback of:	(-)				
	1) Injections 2) Capsules 3) Tablets	4) Solution s				
6)	Ideal pH range of Water for injection (WFI) is					
	1) 5.5 to 7.5 2) 8 3) 6 to 7	4) 5 to 7				

7)	oil is used as vehicle in steriles.
	1) Paraffin oil 2) Almond 3) Sesame oil 4) Coconut oil (1)
8)	One of the following effects solubility - dissolution rates.
	1) Processing 2) Polymorphism 3) Preservatives 4) pH and pK (1)
9)	Standard buffer concentration is in
10)	1) 50 to 89 mmol 2) 10 to 90 mmol range 3) 30 to 50 mmol range 4) 10 to 100 mmol range (1)
10)	Borosilicate glass is
	Type III glass 2) Type II glass 3) Type IV glass 4) Type I glass
11)	A tablet defect related to poor flow
	1) Capping 2) Sticking 3) Weight variation 4) Lamination (1)
12)	Which of the following is NOT TRUE for wet granulation?
	Improves 2) Less time 3) Requires 4) Unsuitable for moisture sensitive drugs (1)
13)	(1) The weight of a tablet is 150 mg. According to IP, the weight variation limit for this tablet is NMT 2 tablets should deviate from average weight by
	Twivi i 2 tablets should deviate from average weight by
	1) ±10% 2) ±7.5% 3) ±5% 4) No such limit
14)	Which of the following is a non enteric polymer?
	Cellulose Acetate Phthalate 2) Hydroxy propyl acetate pthalate 3) Polyvinyl acetate pthalate 4) Hydroxypropylmethyl cellulose pthalate
15)	What should be the moisture content of a hard gelatin capsule
	1) < 10% 2) 10-13% 3) 13-16% 4) 16-18% (1)
16)	The shells of soft gelatin capsules may be made elastic by the addition of

	1) Sorbitol	2) Povidor	ne 3) Po	olyethylene ycol	4)	Hydroxypropyl cellulose	methyl	(1)
17)	Select the right	sequence in	manufactur	ring of Hard C	elatin	Capsules		
	DippingSpinning- DryingStrippingTrim ming- joining-Polishing		Spinning	gjoiningPol 3	Spinni	gStripping-	Stripping Drying	Spinning g- gjoiningPoli
10)	Classein is an	1		·				(1)
18)	Glycerin is used	a as		in Tooth	pastes.			
10)	1) Foaming agent	2)	Flavor	3) Humecta	ant	4) Prese	rvative	(1)
19)	In Shampoos, d	etergency an	d foam is p	rovided by				
	1) Preservatives		2) Prin	COTOMTI I 4 3 I	her ditives		Secondary surfactant	(1)
20)	In which step of	f sugar coatii	ng rounding	of edges take	s place	? (1)	_	Ц
	1) Sealing 2) Syrupin	g	3) Sub coa	ating	4) Polishing		
	II Long	Answers						
	Answer all the questions							
	21)Discuss 5 tableting protest for	blems and re	easons for th	ne same. Desc	ribe ho	w the weight var	riation	
	tablets is performed and co	ondition to p	ass the test				(10)	
	22) Define ophthalmic dos						on. List	
	criterions to choose preser	vatives in op	hthalmic pr	reparations wi	th exan	nples.	(10)	
		ormulation. l		our important			(5)	
	24) Briefly discus	s Tonicity re	quirements	for parenteral	l produ	cts. Give two exa	amples. (5)	

25)	Write a note on advantages and disadvantages of ophthalmic inserts.	(5)
26) vanishing c	With the help of a formula, discuss the principle involved in the manufacturing reams.	of (5)
27)	What is packaging? Mention their characteristics. List any four types of closures.	(5)
28)	What are the components of SGC shell? Mention 2 advantages of pellets and the processes commonly used for pelletisation	(5)
29) I different from	Describe the working of a semi-automatic capsule filling machine. In what way is om the fully automatic capsule filling machines?	it (5)
 -End		