

## MANIPAL ACADEMY OF HIGHER EDUCATION

Industrial Pharmacy I [PCE-BP502T]

Marks: 7	75		Duration: 180 mins.
		I Multiple Choice Questions (MCQs)	
	III the questions.		Section Duration: 30 mins
1)	Which of the following h	as good dissolution and absorption.	
	1) Organic solvates	2) Crystalline 3) Pseudomorph	4) Metastable (1) polymorph
2)	Flow in which all the mat	erial is in discharge is referred to as:	
	Core flow	2) Downward flow 3) Conical flow	4) Mass flow (1)
3)	During preformulation stu	dies, Solubility is ideally studied at °C.	
	1) 23.5	2) 37.5 3) 4 and 37	4) 4.5
4)	API belonging to Amide c	ategory readily undergoes	
	Oxidation 1)	2) Hydrolysis 3) Reduction	(1) Reduction
5)	Amount of dissolved solid	s permitted in Water for Injection is	
	1) 10 ppm	2) 5 ppm 3) 20 ppm	4) 25 ppm (1)
6)	Preferred oil for injection g	iven by IM route is	
	1) Almond oil	2) Coconut oil 3) Paraffin oil	4) Sesame (1)
7)	Insulin is normally adminis	tered through	
	I) IM route	2) IV route 3) SC route	4) IC route (1)
8) G	lass belonging to Type II is _	Today Coll	
	Borosilicate ) glass	Soda lime glass 3) Sintered glass	4) Dealkalised glass (1)
9)	refers to	stagnant water in water systems in Parenterals.	
	Pipe lock		
	1) system	Dead valves 3) Pneumatic valves	4) Dead legs (1)
10)	Cartons are evaluated for fol	lowing tests except for	
	GSM 1)	Bursting   Print   2) strength   3) Quality	Scuff (1)

(1)

11)	Patient information leaflets are not tested for	
	1) Dimensions 2) Pin holes 3) GSM 4) Pri qua	nt ılity (
12)	Glycerin is used as in tooth paste.	
	Stabilizing 1) Square	(1)
13)	Creams are basically in nature.	
	1) Emollients 2) Emulsions 3) Ointments 4) Skin tonics	(1)
14)	Which of the following is not related to automatic capsule filling machine?	
	1) Auger 2) Dosator 3) Piston tamp 4) Dosing disc	(1)
15)	The acogel capsule filling machine has which one of the following 3 rollers?	
	Measuring roll, feeder roll, sealing roll  2) Measuring roll, die roll, sealing roll  3) Measuring roll, gel roll, sealing roll  4) Measuring roll, oil roll, sealing roll	(1)
16)	Bloom strength, A measure of cohesive strength of gelatin ideally for capsule should be.	
	1) 150-280 2) 100-200 3) 80-120 4) 120-150	(1)
17)	The role of ammonia in hair dye is	
	To impart gloss 2) To improve texture 3) To enable cuticle to swell 4) All of the above	(1)
18)	Which of the following tests for aerosols is related to particle size	
	1) Flash point 2) Flame projection 3) Cascade impactor 4) Foam stability	(1)
19)	The correct number for the propellant dichlorodifluromethane is	
	1) 11 2) 12 3) 111 4) 112	(1)
20)	Which of the following is a compressed gas?	
	1) Propanc 2) Nitrogen 3) Butane 4) Isobutane	(1)
	II Long Answers	
Ans	wer all the questions.	
1)	What is pharmaceutical packaging? Classify the types of packaging with an example. Enlist any four important Quality Control tests to be performed for cartons and briefly explain (1+1+8)	(10)
2)	What are the advantages of Granulation? Discuss the different granulation techniques with their advantages and disadvantages	(10)
	III Short Answers	
	wer all the questions.	
1)	for drugs effected by frydrotysis.	(5)
2)	Give a flow chart for a liquid sterile product manufactured by non-aseptic processing technique and discuss briefly.	(5)

3)	,	Write a note on plastic containers used in parenterals. Mention three problems associated with plastic containers (2+3)	(5)
4)		Explain the tests (i) uniformity of weight and (ii) Uniformity of content for evaluation of tablets	(5)
5)		Discuss the stages in the production of hard gelatin capsule shells.	(5)
6)		Describe the techniques used in preparation of pharmaceutical pellets	(5)
7)		What are the requirements of an ideal sunscreen agent? Give examples. What is the difference between chemical and physical sunscreens?	(5)

----End----

Ÿ.