SEC-A

Note	e: Answer any 20 questions	. Each questior	ı carrie	s ONE mark		20x1=20
1.	Which one of the formulation will give higher a) Nano suspensions c) Immediate Release Capsules		bioavailability? b) Immediate Release Tablets d) Solutions			
2.	Low soluble high permeable a) BCS Class I	drug comes unde b) BCS Class I		c) BCS Class	III d) B	CS Class IV
3.	Capping of tablets is due to					
	a) Entrapment of air during coc) Faulty compression machine	•	•			
4.	Identify the thermal method ba) DTA	pased on the chan b) DSC	iges in e	nergy input of t	the system d) DR	
5.	Listerine mouthwash is a a) Microemulsion	b) Suspension		c) Multiple er	nulsion	d) Dispersion
6.	Which one of the following is the commonlyused bulking agent in the formulation of freez driedlow dose drug products?					
	(a) Sodium chloride	b) Mannitol		(c) Starch		(d) HPMC
7.	Which one of the following do a) Tube spacers,	evice is used to in b) Metered val		he efficiency of c) Actuator	_	very via aerosols? ssure valve
8.	Which of the following equation describes the rate of dissolution from tablet? a) Fick's law b) Henderson Hasselbalch equation c) Noyes Whitney equation d) Michelis Menton equation					•
9.	Shellac is used in the coating of tablets for a) Polishing b) Seal coating c) Film former d) Sub-coating					
10.	Which of the following is use a) Sorbitol b) Pov		sticity of c) PEC		le's shell' d) HPl	
11.	The phenomenon of increasin addition of a water miscible s	-		•	_	•

a) Complexation

b) Co-solvency

c) Solubilization

d) Hydrotrophy

12.	which of the following is a new drug delivery process which is composed of phospholipids that spontaneously form multilamellar concentric vesicles with layers of aqueous media separating the lipid layer?					
	a) Prodrugs	b) Liposomes	c) Osmotic pumps	d)Nanoparticles		
13.	The measure of cohesive strength of the cross linking that occurs between gelatin molecules and is proportional to the molecular weight of gelatin is called					
	a) Bloom strength	b) Viscosity	c) Surface tension	d) Partition coefficient		
14.	If the Carr's index of a powder is 10% thenthe type of powder flow is					
	a) Poor	a) Poor b) Excellent		d) Good		
15.	Inadequate spreadi a) Orange peel effe	ng of the coating solution ect b) Sticking	during tablet coating be c) Blistering	fore drying causes d) Picking		
16.	The ratio of void v a) Porosity	olume to the bulk volume b) True density	of the packing of the poor	wder is called as d) Bulk density		
17.	Which of the followard Solubilization	wing technique is used to b) Parentral suspension	formulate depot formulation c) Microemulsions	tions? d) Encapsulation		
18.	The following incompatibility occurs in a mixture of menthol and thymol					
	a)Chemical incompc) Physical incomp	•	b) Therapeutic incomd) Tolerance incompa	•		
19.	Bloom strength is used to check the quality of					
	a) Lactose	b) Ampoules	c) Hardness of tablets	s d) Gelatin		
20.	Mixing of semisolids is carried out using a) Double cone mixer b) Rotating cube mixer c) Planetary mixer d) Fluidized bed mixer					
21.	•	smetics Act and rules, the b) Schedule X		nical trials of new drug is d) Schedule Y		
22.	A co-solvent used in the preparation of parenteral products is:					
	a) Benzyl alcohol	b) Methyl alcohol	c) Dimethyl acetamic	d) Phenol		

23.	One of the following is us	One of the following is used as a pH dependent controlled release excipient					
	a) Ethyl cellulose	b)	Glycerylmonostearate				
	c) Povidone	d) Hydrox	yproply methyl cellulos	e phthalate			
24.	A water insoluble resin that is used as coating material in microencapsulation process is						
	a) Polyvinyl alcohol	b)	Silicone				
	c) Hydroxy ethyl cellulos	e d)	Polyvinylpyrrolidone				
25.	Insufficient spreading of the coating solution before drying in causes of tablet coating process causes						
	a) Cracking	b) Hazing					
	c) Blistering effect	d)	Picking effect Orange J	peel effect			
26.	Crown thickness of tablet is measured by						
	a) Micrometerb) Hydrometer c) Pychnometerd) None of above						
27.	Angle of repose is measur	red by					
	a) Fixed funnel method		b) Cup plate met	hod			
	c) Both of the above	d)	None of the above				
28.	Which one of these is a ca	Which one of these is a carcinogenic					
	a) Mannitol b)	Saccharin	c) Sucrose	d) All the above			
29.	Nature of propellant is de	Nature of propellant is determined by					
	a) Karl Fisher Method	b) Gas Ch	romatography				
	c) UV method	d) None o	f the above				
30.	Intradermal injection refe	r to the injection	n into the				
	a) Muscle mass b) Subcutaneous tissue						
	c) Spinal fluidd) Skin lay	er (superficial)					
		<u>S1</u>	EC- B				
No	te: Answer any 10 question	ons. Each que	stion carries TWO n	narks 10x2=20			
1.	Define compression and	consolidation.					
2.	Give any four examples of superdisintegrants.						
3	Define validation						

- 3. Define validation.
- 4. Write a note on Biosimilars.
- 5. List out types of Patents.
- 6. Define absorption and bioavailability.
- 7. BCS Classification.
- 8. Explain therapeutic drug monitoring.
- 9. Define Biowaivers with suitable example.
- 10. Advantages of controlled release dosage forms.

- 11. Note on Osmotic pressure controlled delivery system.
- 12. Classify permeability enhancers.
- 13. Note on Niosomes.
- 14. List out basic components of TDDS.
- 15. Classify polymer.

SEC-C

Note: Answer any 05 questions. Each question carries FOUR marks

5x4=20

- 1. Explain about preformulation stability studies of powder.
- 2. Explain effect of particle size on strength of tablets.
- 3. Write a note on chewable tablets.
- 4. Write a note on applications optimization techniques.
- 5. Pharmaceutical factors affecting drug absorption.
- 6. Approaches to improve dissolution of poorly soluble drug.
- 7. Write a concept of loading dose.
- 8. Explain combination of dissolution controlled drug delivery systems.
- 9. Evaluation of Transdermal patches.
- 10. Formulation aspects of liposome.