

	End Sem	nester / Reappear (	(Semester V	) Examina	tion Dec	2022		
C C	rogramme: B.Pharm ourse: Industrial Pharma ourse Code: BP502T	Full Marks: 75 Time: 3Hrs.						
E	nrollment No:		ection I					
1.	Objective type questions					20x1	-20	
	Determination of bulk den				-20			
	(a) Bulk characterization	(b) Solubility at		c) Stability :	analysis	(d) N	Ione	
ii.		the unionized form is present in thepH						
	(a) Basic	(b) Acidic		c) Neutral	-			ic and basic
iii	i. According to the Biopharn		`	, ,		. ,		
	(a) high permeability, low solubility			(b) low permeability, high solubility				
	(c) high permeability, high solubility			(d) low permeability, low solubility				
iv	. An ingredient used to imp	rove flow propertie	s of granule	s into a die	for comp	ressio	on during	g tablet
	formulation is a							
	(a) Disintegrant	(b) Lubricant	(0	c) Surfactar	nt	(d)	glidant	
v.	Elimination of capping of	tablet is achieved l	by					
	(a) Pre- compression	(b)	Reducing the	he final con	npression	rate		
	(c) Using flat punches	(d)	All of abov	ve				
vi. Which of the following agent is/are used in enteric coating of the tablet								
	(a) HPMC	(b) CAP		(c)	СМС		(d)	All
vi	i. Disintegration time for su	igar coated tablet is						
	(a) 15 minutes	(b) 30 minute	es (c	c) 60 minu	ites	(d)	90 minu	ites
vi	iii. Temperature condition ir	n Dissolution test						
	(a) $37 \pm 2^{0}$ C	(b) $37 \pm 0.2^{\circ}$ C	(0	c) $37 \pm 5^{\circ}$ C		(d)	$37\pm0.5^{\circ}$	С
ix	. In Roche friabilator plastic	c chamber revolves	at speed					
	(a) 25 rpm	(b) 50 rpm	(0	e) 15 rpm		(d) 3	0 rpm	
x.	Vanishing cream is an exa	imple of						
	(a) Aerosol (b)	o/w emulsion	(c) Gel		(d) w/o	emu	lsion	
xi	i. Moisture content of empty	gelatin capsule lie	in the range	of				
	(a)Below 10% (b)	Above 20%	(c) 12-15	%	(d) 30-3	35%		

xii. The shells of soft gelatin capsules may be made elastic or plastic by the addition of									
(a) HPMC	(b) Povidone	(c) PEG	(d) Sorbitol						
xiii. ROTOFIL is used for the filling of									
(a) Pellets	(b) Liquid	(c) Corrosive liquid	(d) Powder						
xiv. The filling of sterile medicinal products is done in									
(a) Grade A area	(b) Grade C area	(c) Grade D area	(d) None						
xv. Which of the following dosage form is having maximum bioavailability?									
(a) Tablet	(b) Emulsion	(c) Parenteral	(d) None of the above						
xvi. Treated Soda-Lime Glass is									
(a) Type-IV	(b) Type-III	(c) Type-I	(d) Type-II						
xvii. The estimated maximum volume of cul-de-sac is about:									
(a) 10µL	(b) 20µL	(c) 30µL	(d) 70µL						
xviii. The most frequently used surfactant in shampoo are									
(a) Cationic	(b) Anionic	(c) Non-ionic	(d) All						
xix. CFC114 is									
(a) Tetra-fluoroethane		(b) Dichloro difluoromethane							
(c) Dichloro tetrafluoroethane		(d) None of the above							
xx. Bubble test is used as a quality control test for									
(a)Sachet	(b) Plastic container	(c) Glass container	(d) Blister pack						

# Section II

### 2. Short Answer type questions. Answer any five.

a. Discuss the significance of particle size in the formulation of tablet dosage form.

- b. Explain the filling of liquid orals.
- c. Discuss the extraction of gelatin.
- d. How sterility testing of parenteral products are done?
- e. Describe the formulation of eyedrops.
- f. Give the formulation of cold cream.
- g. Give the quality control tests for aerosols.

# Section III

### Long Answer type questions. Answer any two.

#### 2x10=20

5x7=35

- 3. Explain in detail the filling and production of hard gelatin capsules.
- 4. Define isotonic solution. Give its importance. Explain various methods for adjustment of isotonicity.
- 5. Describe the different granulation techniques used to manufacture tablets.