Name :	
Roll No. :	Conservery Consister and Confinat
Invigilator's Signature :	

CS/B.Pharm (NEW)/SEM-5/PT-506/2010-11 2010-11 PHARMACEUTICS (PHARMACEUTICAL TECHNOLOGY – II)

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GROUP – A

(Multiple Choice Type Questions)

1.	Cho	ose	the	corre	ect	alterr	nati	ves	for	any	ten	of	the
	following :										10) × 1 =	10
	i) Orange-Peel effect is related to												
		a) hard gelatin capsules					b)	film coated tablets					
		c)	unc	oated	table	ets		d)	non	e of tł	iese	•	
	ii) Chilsonator is used for												
		a)	granulation				b)	tablet coating					
		c)	cap	sule fi	lling			d)	hard	lness	test	ing.	
	iii)		ich o ets ?	f the	follo	wing	is	used	for	enter	ric o	coating	g of

- a) polyethylene glycols
- b) hydroxypropyl methyl cellulose
- c) acrylate polymers
- d) sodium carboxymethyl cellulose.

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- iv) Cam track guides the movement ofa) dieb) put
 - hopper

c)

punch feed frame.

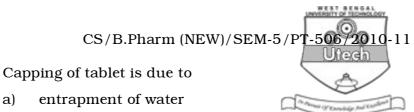
- v) Iron contents in soft gelatin capsule
 - a) should be less than 25 ppm
 - b) should be less than 15 ppm
 - c) should be less than 20 ppm
 - d) should be within 15-25 ppm.
- vi) The free flowing powder should have the angle of repose

d)

a)
$$\geq 30^{\circ}$$
 b) $\geq 40^{\circ}$

- c) $\leq 30^{\circ}$ d) $\leq 35^{\circ}$.
- vii) Wet granulation is not suitable for
 - a) weakly acidic drug b) weakly basic drug
 - c) both (a) & (b) d) thermo-labile drug.
- viii) Spray dried lactose is especially prone to darkening in presence excess moisture, amines, owing to presence of a
 - a) acetaldehyde b) aceto-acetaldehyde
 - c) formaldehyde d) furaldehyde.
- ix) A suitable example of a humectant used in cosmetic preparations is
 - a) tannic acid
 - b) sodium lauryl sulphate
 - c) isopropanol
 - d) glycerol.
- x) The maximum weight loss, which is considered acceptable after conducting friability test on a tablet sample is
 - a) 0.1% b) 0.5%
 - c) 1% d) 2%.

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- b) entrapment of air
- entrapment of fine particle c)
- d) none of these.

xi)

a)

- xii) In sugar coating, the colour additives are generally applied in which step?
 - seal coating sub-coating a) b)
 - both (a) & (b) c) d) syrup coating.

GROUP – B

(Short Answer Type Questions)

Answer any three of the following. $3 \times 5 = 15$

- Write a note on the effect of compression force on the 2.properties of compressed tablets.
- 3. What is gelatin? Why is gelatin ideal for capsule shell? Write the flow-chart for the extraction of gelatin from animal sources.
- 4. Describe in brief, the different steps of lipstick manufacture.
- 5. Write a short note on the manufacture of any one of the following :
 - i) nail enamel
 - vanishing cream ii)
- 6. What is angle of repose ? How does angle of repose determine the flow characteristics of powder ? How do you measure angle of repose ? 1 + 2 + 2

3

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GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

- 7. a) Define stability study. What are the factors affecting the stability of pharmaceutical preparation ? Write a note on accelerated stability testing for tablet preparation.
 - b) Write a short note on USP dissolution test apparatus-I. 1 + 3 + 6 + 5
- 8. What is tablet coating & why is it necessary ? Briefly discuss the steps involved in sugar coating. What do you mean by enteric coating ? Discuss the coating technique using different standard coating pan. 3 + 4 + 1 + 7
- 9. Write down the different methods for tablet preparation. Describe about the dry granulation procedures. Write down the working principle and draw a neat sketch on "Chilosonator roller compactor". 1 + 6 + 8
- 10. Define tooth paste. Describe briefly about the ingredients used in tooth paste. Write down the difference between the normal and medicated tooth paste. 1 + 12 + 2
- 11. Define capsule. Differentiate between hard gelatin capsule & soft gelatin capsule. What are the advantages & disadvantages of capsule dosage form ? Define bloom strength & its importance. Why is plasticizer used ?

2 + 3 + 3 + 5 + 2

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