	Utech
Name:	
Roll No.:	A Agency Of Exercising 2nd Exercise
Invigilator's Signature:	

CS/B.PHARM/SEM-4/PT-406/2012 2012

PHARMACEUTICS (Pharmaceutical Technology-I)

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. Choose the correct alternatives for any *ten* of the following :

 $10 \times 1 = 10$

- i) Unorganised drugs are usually extracted by a process called
 - a) Maceration
- b) Percolation
- c) Decoction
- d) Infusion.
- ii) Polymethyl methacrylate is used to prepare
 - a) soft contact lens
 - b) hard contact lens
 - c) semi-soft contact lens.

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111)	The	moisture content of ac	erosol	product is determined	
	by			As the part of the state of the	
	a)	hydrometer	b)	The state of the s	
	c)	tag open cup	d)	none of these.	
iv)	Chemical name of propellant 12 is				
	a)	Dichlorodifluorometha	ne		
	b)	Trichloromonofluoromo	ethan	e	
	c)	propane			
	d)	none of these.			
v) Bougies are					
	a)	rectal suppositories			
	b)	vaginal suppositories			
	c)	urethral suppositories	•		
vi)		ch is not used as tion?	swee	etening agent in oral	
			L)	A	
	a)	Liquid glucose	b)	•	
••\	c)	Lactose	d)	Honey.	
V11)		te ointment is a mixtur	-		
	a)	Borax	b)	Paraffin wax	
	c)	Beeswax	d)	Ceresin.	
viii)) Displacement value of castor oil is			is	
	a)	1.5	b)	1.0	
	c)	2.5	d)	2.0.	
ix)			e cre	am as humectants at a	
	cond	centration of			
	a)	10%	b)	3%	
	c)	5%	d)	2%.	

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- x) Polysorbate 80 is used in eye preparations as
 - a) wetting agent
- b) buffer
- c) anti-oxidants
- d) thickening agent.
- xi) The human blood should be stored after collection at
 - a) $8^{\circ}\text{C} 25^{\circ}\text{C}$
- b) $2^{\circ}\text{C} 8^{\circ}\text{C}$
- c) 17°C 25°C
- d) 30°C 37°C.
- xii) The most stable form of cocoa butter is
 - **a**) α

b) β

c) β¹

d) γ.

GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. Write down the properties, advantages and disadvantages of cocoa butter as a suppository base.
- 3. Give a brief account of displacement value.
- 4. Define the following:

 5×1

a) Paste

- b) Gel
- c) Jellies
- d) Cream
- e) Ointment.
- 5. What do you mean by propellant? Write the equation used to determine the vapour pressure of a mixture of two propellants. Classify propellant with example. 1 + 2 + 2
- 6. How will you evaluate an emulsion?

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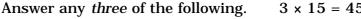
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(Long Answer Type Questions)



		Answer any <i>three</i> of the following. $3 \times 15 = 45$
7.	a)	Mention different types of ophthalmic preparations. What are the requirements for the preparation of an eye-drop? $1+5$
	b)	What are the preservatives used in ophthalmic preparations?
	c)	Write a note on the sterilization of ophthalmic preparations.
8.	a)	Write a note on testing or evaluation of suppositories.
	b)	Discuss different stability problems of suppositories and their probable remedies.
	c)	Calculate the quantities of drug <i>A</i> and <i>B</i> and base required to make 10 suppositories each containing 90 mg of drug <i>A</i> and 350 mg of drug <i>B</i> . 1 g mould will be used. Displacement value of drug <i>A</i> is 1·3 and of drug <i>B</i> is 3·7.
9.	a)	What are the techniques used to improve the solubility of the drug in aqueous vehicle?
	b)	Sweetening agent is an essential additive for oral liquids. Justify this comment.
	c)	What is the importance of rheological characteristics of

- pharmaceutical suspension? 3
- 10. a) What are the various factors which affect the percutaneous absorption? 6
 - Write about the ointment base. b)
 - Give an account on manufacturing of semisolid c) emulsion. 5
- 11. Add a note on the following: 3×5
 - a) Continuous hot percolation process
 - b) Dry and soft liquid extracts
 - Pharmaceutical applications for aerosols. c)

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