	Ulegh
Name :	
Roll No.:	On Spiriture (1/ Exemple) and Explained
Invigilator's Signature :	

## CS/B.Pharm (New)/SEM-4/PT-406/2010 2010

# 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 )

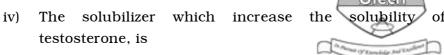
1. Choose the correct alternatives for any ten of the following:

 $10 \times 1 = 10$ 

- i) Chemical name of propellant 12 is
  - a) Dichlorodifluoromethane
  - b) Trichloromonoluromethane
  - c) Propane
  - d) None of these.
- ii) The human blood should be stored at
  - a)  $8^{\circ}\text{C} 25^{\circ}\text{C}$
- b)  $2^{\circ}\text{C} 8^{\circ}\text{C}$
- c)  $20^{\circ}\text{C} 25^{\circ}\text{C}$
- d) less than 10°C.
- iii) Methyl paraben is highly inactivated in presence of
  - a) Gelatin
- b) Methyl Cellulose
- c) Carbomer
- d) Tween 80.

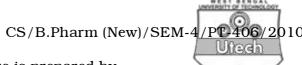
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- a) Sucrose monoesters
- b) Lanolin esters
- c) BRIJ and MYRJ series
- d) Tween series.
- v) Extraction of drug by Soxhlet apparatus is not applied for
  - a) Thermostable drug b) Thermo sensitive drug
  - c) Both (a) and (b)
- d) None of these.
- vi) Polymethyl methacrylate is used to prepare
  - a) soft contact lenses
  - b) hard contact lenses
  - c) semi soft contact lenses
  - d) none of these.
- vii) Multiple emulsion may be used
  - a) for prolongation of drug action
  - b) localization of drug action in the body
  - c) in the treatment of drug overdose
  - d) all of these.
- viii) Which of the following additives is used to increase the ocular contact time in ophthalmic preparation?
  - a) Thiomersal
  - b) Sodium metabisulphite
  - c) Methyl cellulose
  - d) Benzalkonium chloride.

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- ix) Orange tincture is prepared by
  - a) Maceration process
  - b) Infusion process
  - c) Soxhelation process
  - d) Decoction process.
- x) For drying blood plasma which of the following techniques is used?
  - a) Vacuum drying
- b) Spray drying
- c) Freeze drying
- d) Fluidized bed drying.
- xi) According to Stoke's law increasing the radius of dispersed globules will
  - a) increase creaming
  - b) decrease creaming
  - c) does not produce creaming
  - d) none of these.
- xii) Most stable form of cocoa butter is
  - a)  $\alpha$

b) β

c)  $\beta^1$ 

d)  $\gamma$ .

#### **GROUP - B**

#### (Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$ 

- 2. Write short notes on contact lenses.
- 3. Write short notes on breaking test and softening time test for suppository.
- 4. Differentiate between the following :
  - a) Infusion and decoction
  - b) Maceration and percolation.
- 5. Write a short note on preservative used in oral liquid dosage form.
- 6. Describe the ideal requirements for plasma substitutes.

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### (Long Answer Type Questions)

Answer any three of the following.



- 7. a) Explain the technique used to increase the solubility of a drug in aqueous vehicle.
  - b) What are the stability problems of an emulsion?
  - c) Write a short note on flavoring agents used in liquid oral preparations. 5 + 6 + 4
- 8. a) Define the term 'eye drop'. What are the requirements for the preparation of an eye drop?
  - b) What are the preservatives used in ophthalmic preparations?
  - c) Write about the various methods of sterilization of ophthalmic preparations. (1+4)+4+6
- 9. a) What are the galenicals?
  - b) Discuss the factors to be considered during selection of extraction process.
  - c) Write about the different steps of percolation process.

2 + 5 + 8

- 10. Define an aerosol. What are the advantages of an aerosol? Write a note on evaluation and quality control of an aerosol dosage form. 2 + 3 + 10
- 11. Write a note on the type of bases available for the preparation of ointments. Discuss their advantages and disadvantages. Give your answer with suitable example.

10 + 5

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