



Name :

Roll No. :

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 × 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.

4319

[Turn over



- iii) The moisture content of aerosol product is determined by
- a) hydrometer b) gas chromatography
c) tag open cup d) none of these.
- iv) Chemical name of propellant 12 is
- a) Dichlorodifluoromethane
b) Trichloromonofluoromethane
c) propane
d) none of these.
- v) Bougies are
- a) rectal suppositories
b) vaginal suppositories
c) urethral suppositories.
- vi) Which is not used as sweetening agent in oral solution ?
- a) Liquid glucose b) Aspartame
c) Lactose d) Honey.
- vii) White ointment is a mixture of petrolatum with 5%.
- a) Borax b) Paraffin wax
c) Beeswax d) Ceresin.
- viii) Displacement value of castor oil is
- a) 1.5 b) 1.0
c) 2.5 d) 2.0.
- ix) Sorbitol 70% is used in the cream as humectants at a concentration of
- a) 10% b) 3%
c) 5% d) 2%.



GROUP - C

(Long Answer Type Questions)

Answer any *three* 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 ? 3
- c) Write a note on the sterilization of ophthalmic preparations. 6
8. a) Write a note on testing or evaluation of suppositories. 6
- b) Discuss different stability problems of suppositories and their probable remedies. 4
- c) Calculate the quantities of drug A and B and base required to make 10 suppositories each containing 90 mg of drug A and 350 mg of drug B. 1 g mould will be used. Displacement value of drug A is 1.3 and of drug B is 3.7. 5
9. a) What are the techniques used to improve the solubility of the drug in aqueous vehicle ? 9
- b) Sweetening agent is an essential additive for oral liquids. Justify this comment. 3
- 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
- b) Write about the ointment base. 4
- c) Give an account on manufacturing of semisolid emulsion. 5
11. Add a note on the following : 3 x 5
- a) Continuous hot percolation process
- b) Dry and soft liquid extracts
- c) Pharmaceutical applications for aerosols.