



Name :
Roll No. :
Invigilator's Signature :

CS/B.PHARM(N)/SEM-7/PT-709A/2012-13

2012

PACKAGING TECHNOLOGY

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) PVC is used in blister packaging as
 - a) forming films
 - b) lidding material
 - c) both (a) and (b)
 - d) none of these.
 - ii) Bakelite is a type of
 - a) thermosetting polymer
 - b) elastomer
 - c) thermoplastic
 - d) none of these.
 - iii) The most widely used thermoplastic material for preparing medical devices is
 - a) PV dC
 - b) polystyrene
 - c) PVC
 - d) PMMA.

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- x) Which of the following tests is not done over rubber closure for injectables ?
- a) Sterilisation test b) Leakage test
c) Fragmentation test d) Self seal ability test.
- xi) The heat sealing characteristic is imparted to the cellophane by coating
- a) PVC b) PVP
c) PVDC d) polystyrene.
- xii) Ampoules and vials are produced by using
- a) coloured glass
b) treated sodalime glass
c) general purpose glass
d) silicone treated glas.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. 3 × 5 = 15

2. Discuss aluminium foil as a packaging material.
3. Write short notes on lamination on plastic tube.
4. Write in short about the containers used for packaging of parental and ophthalmic products.
5. Write note on packaging of solid oral dosage form.
6. Write a brief note on blister packaging.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

7. a) What are the different types of glasses used for pharmaceutical purpose ?
b) Write a note on type-I and type-II glasses.
c) How are glass containers manufactured ?
d) Write a short note on coloured glass used for light protection. 2 + 6 + 4 + 3

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8. Write in detail about the containers used for packaging of aerosols.
9. Write in detail about different types of drug plastic interaction.
10. Write short notes on any *three* of the following : 3 × 5
 - a) PET as packing material
 - b) Component of CFB and its advantages as packing material
 - c) Give a brief note on packaging of transdermal devices.
 - d) Test of metal containers for eye ointments.
11. Write short notes on the following : 2 × 7½
 - a) Bottle seals
 - b) Tape seals and breakable caps.
12.
 - a) What do you mean by tamper resistant packaging ? Write in detail according to FDA.
 - b) What is f/f/s system ? What are the types of this system ? How is this system used to make different types of pouches ?

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