



Name :

Roll No. :

Invigilator's Signature :

CS/B.Pharm(OLD)/SEM-6/PT-610B/2011

2011

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) Aerosol packaging container must resist pressure of

a) 500 psig

b) 140-180 psig

c) 40 psig

d) 20 psig.

ii) Gasket is made of

a) Buna-N

b) Neoprene rubber

c) Both (a) and (b)

d) Aluminium.

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[Turn over



- iii) Plastics are sterilized with
- a) Steam under pressure
 - b) Dry heat
 - c) Ethylene oxide
 - d) Autoclaving.
- iv) Percentage of SiO_2 in Boro-silicate glass is
- a) 60%
 - b) 70%
 - c) 75%
 - d) 80%.
- v) Water attack test is used to check the alkalinity in
- a) Type-I glass
 - b) Type-II glass
 - c) Type-III glass
 - d) all of these.
- vi) Systemic injection test is used for evaluating which type of container ?
- a) Plastic material
 - b) Rubber material
 - c) Metals
 - d) Glass material.
- vii) In preparation of rubber, sulphur is used as
- a) Accelerators
 - b) Vulcanising agent
 - c) Activator
 - d) Softeners.
- viii) Which one is known as push-through pack ?
- a) Strip pack
 - b) Blister pack
 - c) Bubble pack
 - d) Pouch pack.

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- ix) Photo-sensitive products are kept in
- Well closed container
 - Air tight container
 - Light resistant container
 - Aerosol container.
- x) A very practical method of disposing plastic containers is
- Incineration
 - Open dumping
 - Sanitary landfill
 - Composing.
- xi) Which one does *not* come under tamper resistant pack ?
- Blister package
 - Strip package
 - Bubble package
 - Pouch pack.
- xii) Amber colour in glass is produced by using
- Calcium oxide
 - Iron oxide
 - Zinc oxide
 - Alumina.

GROUP – B

(Short Answer Type Questions)

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

- Define Tamper resistant packaging with suitable example.
- What is strip packing ?
- What are the options available for packing semisolid dosage forms ?
- Write notes on the following :
 - Bubble pack
 - Formed aluminium foil container.

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GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

6. Write in detail about the containers used for packaging of parenterals and ophthalmics.
7. What do you mean by solid waste ? Describe critically the different ways of disposing plastic containers.
8. Explain the preparation and evaluation of glass containers.
9.
 - a) What are Thermoplastic and Thermosetting plastic ?
 - b) Write in detail about different types of drug-plastic interaction.
10. Write in detail about the research and development aspects on packaging materials.

3 + 12

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