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TSPSC

PL

Previous Year Paper
(Packaging Technology)
05 Sept, 2023 Shift 2



TCSiON CAE

Notations :

- Options shown in **green** color and with  icon are correct.
- Options shown in **red** color and with  icon are incorrect.

Question Paper Name :

PC222009PACKAGINGTECHNOLOGYPL2220 05th
September 2023 Shift 2

Subject Name :

PC222009 PACKAGING TECHNOLOGY PL2220

Actual Answer Key :

Yes

Calculator :

None

Magnifying Glass Required? :

No

Ruler Required? :

No

Eraser Required? :

No

Scratch Pad Required? :

No

Rough Sketch/Notepad Required? :

No

Protractor Required? :

No

Show Watermark on Console? :

Yes

Highlighter :

No

Auto Save on Console?

Yes

Change Font Color :

No

Change Background Color :

No

Change Theme :

No

Help Button :

No

Show Reports :

No

Show Progress Bar :

No

Is this Group for Examiner? :

No

Examiner permission :

Cant View

Show Progress Bar? : No

PACKAGING TECHNOLOGY

Section type : Online

Enable Mark as Answered Mark for Review and Clear Response : Yes

Maximum Instruction Time : 0

Is Section Default? : null

Question Number : 1 Question Id : 630680347949 Is Question Mandatory : No Calculator : No

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following packaging material can be used for bottle stoppers?

Options :

1. Wood

2. Cork

3. Paper

4. Aluminium

Question Number : 2 Question Id : 630680347950 Is Question Mandatory : No Calculator : No

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The first printed box was made in _____.

Options :

1. ✘ India
2. ✘ China
3. ✘ Japan
4. ✓ The United States of America

Question Number : 3 Question Id : 630680347951 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following events in the chronological order (first to last) and choose the correct option.

- A. Paper making was introduced to England.
- B. The process for deriving useful cellulose fiber from wood pulp was developed.
- C. Francis Wolle invented the bag-making machine in the United States.

Options :

1. ✘ A-B-C

2. ✘ C-B-A

3. ✓ A-C-B

4. ✘ B-A-C

Question Number : 4 Question Id : 630680347952 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Packaging with tear-open lids was first developed in _____.

Options :

1. ✓ 1966

2. ✗ 1957

3. ✗ 1970

4. ✗ 1976

Question Number : 5 Question Id : 630680347953 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following plastics discovered in 19th century from first to last.

P. Styrene

Q. Vinyl chloride

R. Celluloid

Options :

1. ✗ Q, R, P

2. ✗ P, R, Q

3. ✓ P, Q, R

4. ✗ Q, P, R

Question Number : 6 Question Id : 630680347954 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The role of packaging is associated with a cluster of needs. Which of the following requirements are correct?

- I. Legal requirements and political compliance
- II. Social and cultural requirements

Options :

- 1. ✘ Only I
- 2. ✘ Only II
- 3. ✓ Both I and II
- 4. ✘ Neither I nor II

Question Number : 7 Question Id : 630680347955 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding glass packaging?

- I. It has a natural gloss and sheen.
- II. It is preferred by pharmaceutical producers because of its inertness and non-reactivity to chemicals.
- III. It has water-barrier properties.

Options :

- 1. ✘ I and II
- 2. ✘ II and III
- 3. ✓ I, II and III

4. ✘ Only I

Question Number : 8 Question Id : 630680347956 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

_____ is made from combining at least two different and often physically distinct materials.

Options :

1. ✘ Fixed packaging

2. ✓ Composite packaging

3. ✘ Rigid packaging

4. ✘ Flexible packaging

Question Number : 9 Question Id : 630680347957 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following characteristics of flexible packaging is correct?

- I. It is less expensive compared to other types of packaging.
- II. It is lighter in weight.
- III. It requires less material.

Options :

1. ✘ I and II

2. ✘ II and III

3. ✓ I, II and III

4. ✗ Only I

Question Number : 10 Question Id : 630680347958 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The Indian Government has enacted various packaging laws and regulations to take care of quality standards. Which of the following is one of those acts?

I. Fruit Products Order, 1955

II. Agriculture Marketing (AGMARK) Rules, 1937

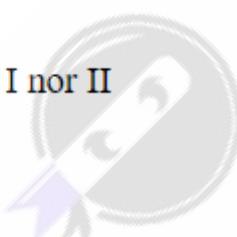
Options :

1. ✗ Only I

2. ✗ Only II

3. ✓ Both I and II

4. ✗ Neither I nor II



Question Number : 11 Question Id : 630680347959 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT an example of rigid packaging?

Options :

1. ✗ Glass container

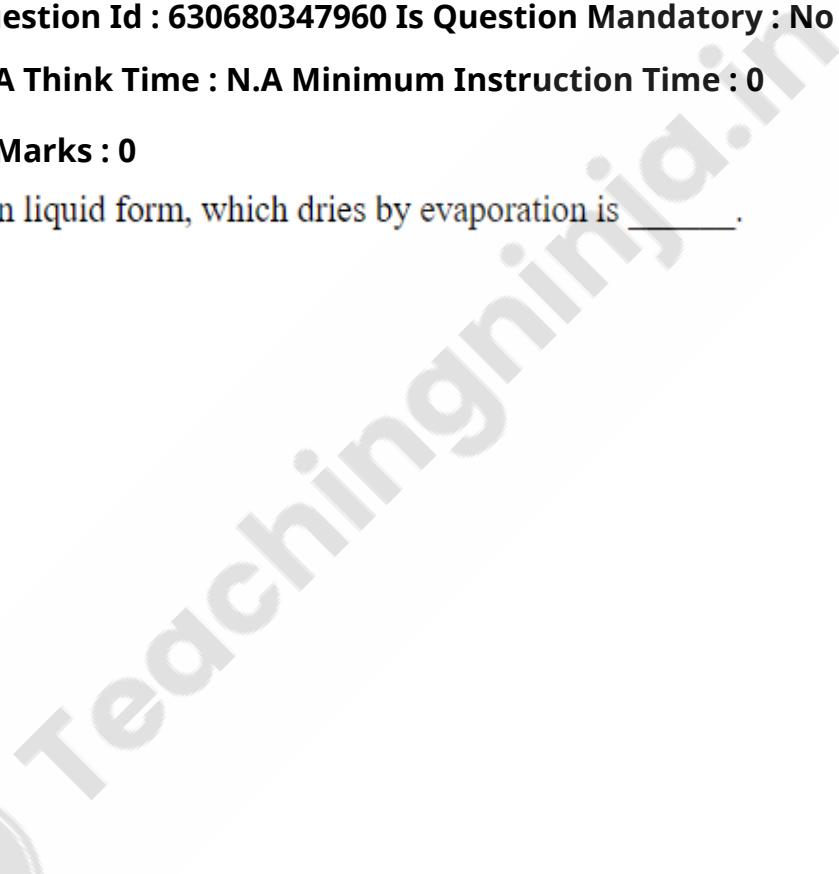
2. Wood container

3. Metal container

4. Plastic container

Question Number : 12 Question Id : 630680347960 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

A type of coating, applied in liquid form, which dries by evaporation is _____. 

Options :

1. Lacquer

2. Silicone

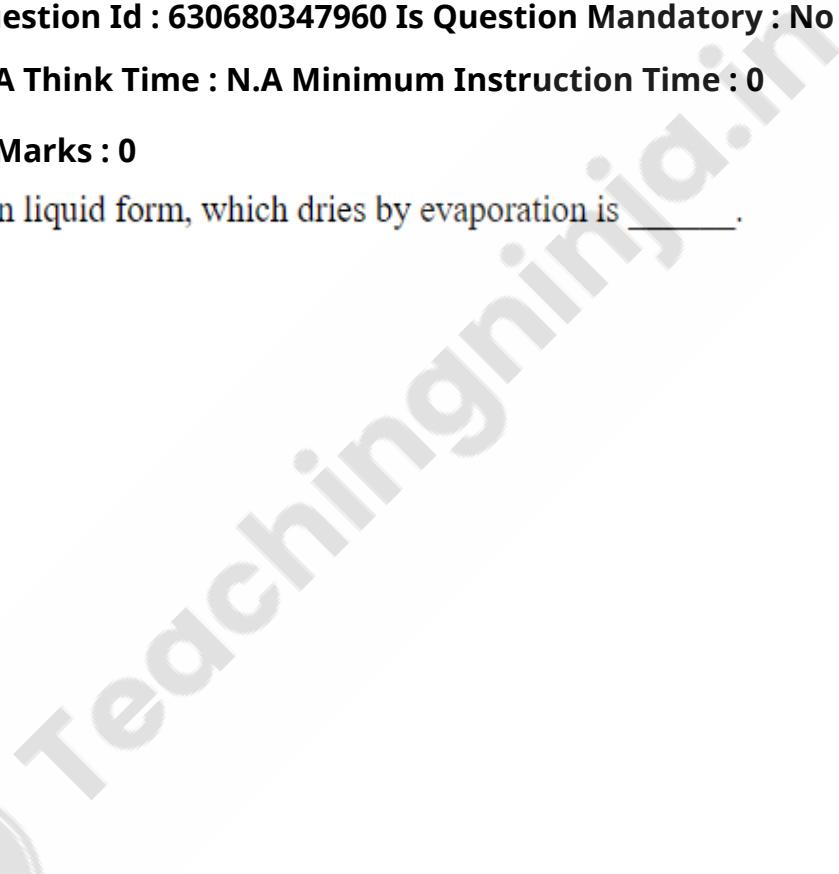
3. Polyurethane

4. Cementing



Question Number : 13 Question Id : 630680347961 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Flux is the amount of a substance transferred across a membrane in unit time through a unit area perpendicular to the direction of movement. It is generally denoted by _____. 

Options :

1. L

2. J

3. F

4. S

Question Number : 14 Question Id : 630680347962 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Considering the third schedule of Standards of Weights and Measurements Act, 1976, arrange the following biscuit packs in the increasing order of the quantities in which they can be packed.

A. Canteen packs

B. Air-tight cartons

C. Exclusive wrap pack

Options :

1. ACB

2. ABC

3. CAB

4. BCA

Question Number : 15 Question Id : 630680347963 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Match the following polymers with their respective diffusion coefficient.

	Polymer		Diffusion coefficient
1	Vinylidene chloride copolymer	I	2.9×10^{-12}
2	Polypropylene	II	1.2×10^{-14}
3	Acrylonitrile barrier polymer	III	1.0×10^{-13}

Options :

1. ✘ 1-III, 2-I, 3-II

2. ✘ 1-I, 2-II, 3-III

3. ✓ 1-II, 2-I, 3-III

4. ✘ 1-II, 2-III, 3-I

Question Number : 16 Question Id : 630680347964 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

With respect to barrier polymer, which of the following is the correct pair?

I. Oxygen barrier polymers - Polychlorotrifluoroethylene

II. Moisture barrier polymers - Polyvinyl alcohol

Options :

1. ✘ Only I

2. ✘ Only II

3. ✘ Both I and II

4. Neither I nor II

Question Number : 17 Question Id : 630680347965 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Pitting corrosion is common in cans with foods containing _____.

Options :

1. iron

2. calcium

3. potassium

4. sulfur

Question Number : 18 Question Id : 630680347966 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding white lined chipboard (WLC)?

- I. The middle layers are white in colour.
- II. This product is also known as newsboard.
- III. It is widely used for dry foods, frozen and chilled foods.

Options :

1. I and II

2. II and III

3. ✳ I, II and III

4. ✳ Only I

Question Number : 19 Question Id : 630680347967 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

For which of the following reasons, paper is used in flexible packaging?

- I. It imparts stiffness in the packed sachet or pouch.
- II. It is a strong material available in reel form in a range of widths and substances.

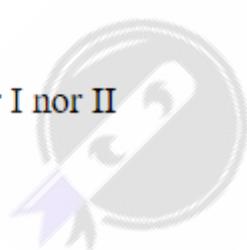
Options :

1. ✳ Only I

2. ✳ Only II

3. ✓ Both I and II

4. ✳ Neither I nor II



Question Number : 20 Question Id : 630680347968 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT a component of corrugated board?

Options :

1. ✳ Liner

2. ✘ Fluting

3. ✘ Adhesive

4. ✓ Tinplate

Question Number : 21 Question Id : 630680347969 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following plastics types in the increasing order of their tensile strength at Break (psi) and choose the correct option.

A. Polyethylene (L.D.)

B. Polyethylene (H.D.)

C. Polyvinyl chloride

Options :

1. ✘ B-C-A

2. ✓ A-B-C

3. ✘ C-B-A

4. ✘ A-C-B

Question Number : 22 Question Id : 630680347970 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

In which technique of plastic processing, the clamping frame is held over the mould and when the plastic sheet is sufficiently heated, it is brought down over the mould till it seals at the mould edge?

Options :

1. ✓ Drape forming
2. ✗ Plug Assist forming
3. ✗ Straight Vacuum Forming
4. ✗ Blow Moulding

Question Number : 23 Question Id : 630680347971 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following properties of Polyvinyl Chloride (PVC) is NOT correct?

Options :

1. ✗ Resistance to Glass
2. ✗ Excellent Printability
3. ✓ Higher Weight/Volume ratio
4. ✗ Good mechanical strength

Question Number : 24 Question Id : 630680347972 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding expanded polystyrene?

- I. It has all nutritive value for any known organism.
- II. It is fully resistant to dilute acids.

Options :

- 1. ✘ Only I
- 2. ✘ Only II
- 3. ✓ Both I and II
- 4. ✘ Neither I nor II

Question Number : 25 Question Id : 630680347973 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The ratio of maximum stress to the total energy absorbed/unit volume of the material is _____.

Options :

- 1. ✘ Tensile strength
- 2. ✘ Rate of recovery
- 3. ✓ Compression set
- 4. ✘ Cushion factor

Question Number : 26 Question Id : 630680347974 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following pairs of products and their 'G' factor is correct?

- I. Missile guidance system – 15-25 G's
- II. Electric typewriters – 40-60 G's

Options :

- 1. ✘ Only I
- 2. ✘ Only II
- 3. ✓ Both I and II
- 4. ✘ Neither I nor II

Question Number : 27 Question Id : 630680347975 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Match the following foil laminates with their end-uses.

	Laminate		End use
1	Toilet soap	I	Paper/foil/polythene
2	Photographic film	II	Foil/Adhesive/Paper
3	Chewing gum	III	Foil/paper/tissue

Options :

- 1. ✘ 1-III, 2-I, 3-II
- 2. ✘ 1-I, 2-II, 3-III

3. ✓ 1-II, 2-I, 3-III

4. ✗ 1-II, 2-III, 3-I

Question Number : 28 Question Id : 630680347976 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The strength and efficiency of a container depends on which of the following factors?

- I. Number of pieces in a shock
- II. Types of edge points
- III. Form and size of each component

Options :

1. ✗ I and II

2. ✗ II and III

3. ✓ I, II and III

4. ✗ Only I



Question Number : 29 Question Id : 630680347977 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

With respect to the effect of moisture on the properties of wood, which of the following statements is correct?

Options :

1. ✗ Dry timber is more susceptible to fungal attack.

2. ✘ Wet wood can be polished smoother than green wood.

3. ✘ Green wood is considerably stronger than dry wood.

4. ✓ Dry wood can be more easily impregnated with wood preservatives.

Question Number : 30 Question Id : 630680347978 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Indian timbers are grouped according to their densities. Group I includes the timber weighing ____.

Options :

1. ✓ 640 kg

2. ✘ 480 kg

3. ✘ 540 kg

4. ✘ 320 kg



Question Number : 31 Question Id : 630680347979 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

As per IS: 2674 -1988, arrange the following types of packages in increasing order of the thickness required for the plywood for construction of their cases.

P. Up to 25 kg, easy load

Q. Over 100 and up to 150 kg, easy load

R. Over 150 and up to 250 kg, difficult load

Options :

1. ✓ P, Q, R

2. ✗ P, R, Q

3. ✗ Q, P, R

4. ✗ Q, R, P

Question Number : 32 Question Id : 630680347980 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

In glass, which substance is found in the highest percentage?

Options :

1. ✓ Sand

2. ✗ Sodium carbonate

3. ✗ Limestone

4. ✗ Calumite

Question Number : 33 Question Id : 630680347981 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the four conventional categories of glass?

- I. Type I glass is suitable as a packaging material for most parenteral or non-parenteral pharmaceutical products.
- II. Type IV is a general purpose soda glass.
- III. Type I glass vessels contain approximately 80% silica.

Options :

1. ✘ I and II

2. ✘ II and III

3. ✓ I, II and III

4. ✘ Only I

Question Number : 34 Question Id : 630680347982 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which testing method is used to determine if holes in packages are present or not present?

Options :

1. ✓ Dye testing



2. ✘ Burst testing

3. ✘ Distribution testing

4. ✘ Biotesting

Question Number : 35 Question Id : 630680347983 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following testing method is NOT recommended for glass bottles and jars?

Options :

1. Chemical etching

2. Visual inspection

3. Vacuum testing

4. Dye penetration

Question Number : 36 Question Id : 630680347984 Is Question Mandatory : No Calculator : 0

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Seam scope projection technique of testing can be used for which of the following food packages?

Options :

1. Paperboard packages

2. Flexible pouches

3. Plastic packages with heat-sealed lid

4. Metal cans

Question Number : 37 Question Id : 630680347985 Is Question Mandatory : No Calculator : 0

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is a non-destructive testing method for packages?

Options :

1. Dye testing
2. Air leak testing
3. Incubation
4. Tensile testing

Question Number : 38 Question Id : 630680347986 Is Question Mandatory : No Calculator : 0

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which testing method is useful for detecting liquids that separate when spoiled within sealed containers?

Options :

1. Electester
2. Gas-leak detection
3. Machine vision
4. Compression testing

Question Number : 39 Question Id : 630680347987 Is Question Mandatory : No Calculator : 0

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements regarding the waterbath test of packaging materials is correct?

- I. Results are very operator-dependent
- II. It can provide sensitivity

Options :

- 1. ✘ Only I
- 2. ✘ Only II
- 3. ✓ Both I and II
- 4. ✘ Neither I nor II

Question Number : 40 Question Id : 630680347988 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The breaking length of paper and paper board can be measured by which of the following formulas?

Options :

- 1. ✓ $(\text{Tensile strength}/\text{Grammage}) \times 1000$
- 2. ✘ $(\text{Grammage}/\text{Tensile strength}) \times 1000$
- 3. ✘ $(\text{Tensile strength}/\text{thickness}) \times 1000$
- 4. ✘ $(\text{Grammage}/\text{Tensile strength}) \times 100$

Question Number : 41 Question Id : 630680347989 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

For the determination of gloss of the plastic film, the gloss meter is set up to _____.

Options :

1. 30°

2. 15°

3. 45°

4. 90°

Question Number : 42 Question Id : 630680347990 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following packaging defects is matched correctly in context of packaging?

- I. Critical defect – Swelling and leakage
- II. Major defect – Cracks and creases
- III. Minor defect - Dents

Options :

1. I and II

2. II and III

3. I, II and III

4. Only I

Question Number : 43 Question Id : 630680347991 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Pendulum test is used to check the _____.

Options :

1. ✘ interface of colour of glass containers

2. ✓ vertical impact strength of glass containers

3. ✘ rigidity or impact strength of glass containers

4. ✘ the resistance of glass containers against withstanding of pressurized liquid

Question Number : 44 Question Id : 630680347992 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding vibration test?

I. This test is conducted to determine the ability of the container

II. A vibrating table is used for studying this type of hazard

III. This test does not determine the strength of the closures used

Options :

1. ✓ I and II

2. ✘ II and III

3. ✘ I, II and III

4. ✘ Only II

Question Number : 45 Question Id : 630680347993 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following tests is performed on corrugated fiber board boxes?

- I. Caliper of thickness
- II. Ring crush test

Options :

1. ✘ Only I

2. ✘ Only II

3. ✓ Both I and II

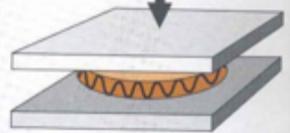
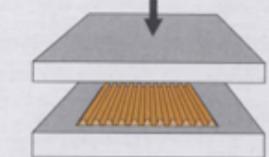
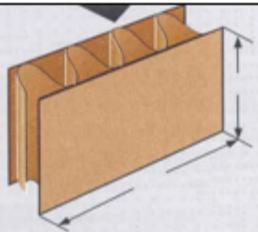
4. ✘ Neither I nor II

Question Number : 46 Question Id : 630680347994 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Match the following images of test for packaging with their respective test names.

	Image		Test
1		I	Flat Crush Test (FCT)
2		II	Edgewise Compression Test or Edge Crush Test (ECT)
3		III	Corrugating Medium Test (CMT)

Options :

1. ✗ 1-III, 2-I, 3-II

2. ✓ 1-I, 2-III, 3-II

3. ✗ 1-II, 2-I, 3-III

4. ✗ 1-II, 2-III, 3-I

Question Number : 47 Question Id : 630680347995 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Assume three oxygen sensitive package foods have a shelf life of 12 months. What will be their new shelf life-

A- If the package thickness is decreased by 20% and the surface area is decreased by 30%

B- If the package thickness is decreased by 10% and the surface area is decreased by 20%

C- If the package thickness is decreased by 40% and the surface area is decreased by 10%

Arrange the new shelf life of A, B and C in increasing order and choose the correct option.

Options :

1. ✘ A-B-C

2. ✘ C-A-B

3. ✓ C-B-A

4. ✘ B-C-A

Question Number : 48 Question Id : 630680347996 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Considering the schematics of biodetection process, arrange the following in the correct order.

- A. Bio-recognition element
- B. Transducer
- C. Signal processing
- D. Data analysis
- E. Analyte

Options :

1. ✘ A-B-C-D-E

2. ✘ B-C-D-E-A

3. ✘ A-B-C-D-E

4. ✓ E-A-B-C-D

Question Number : 49 Question Id : 630680347997 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Capsules come in a wide range of sizes, starting with the smallest size of _____.

Options :

1. number 1

2. number 3

3. number 2

4. number 4

Question Number : 50 Question Id : 630680347998 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Suppositories must be stored at controlled room temperature and preferably never higher than _____.

Options :

1. 30°C

2. 40°C

3. 50°C

4. 10°C

Question Number : 51 Question Id : 630680347999 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following are the predominant methods used to produce enteral nutritional products?

- I. Retort processing
- II. Aseptic processing

Options :

- 1. Only I
- 2. Only II
- 3. Both I and II
- 4. Neither I nor II

Question Number : 52 Question Id : 630680348000 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following steps of thermal processing and packaging system in the correct order (first to last) and choose the correct option.

- A. Product preparation
- B. Filling and sealing
- C. Thermal processing
- D. Cooling cycle
- E. Sterile packaged product

Options :

- 1. B-C-D-E-A
- 2. A-B-C-D-E

3. ✘ A-B-E-D-C

4. ✘ A-C-D-E-B

Question Number : 53 Question Id : 630680348001 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Four types of glass are used in pharmaceutical containers. Which of the following types is paired correctly?

- I. Type 1 - Borosilicate glass
- II. Type 2 - Soda lime glass

Options :

1. ✘ Only I

2. ✘ Only II

3. ✓ Both I and II

4. ✘ Neither I nor II

Question Number : 54 Question Id : 630680348002 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the use of metals in pharmaceutical packaging?

- I. Steel is normally not used even when coated with an inert lining of plastic or multiple layers of thermoset organic coatings.
- II. It provides limited shelf life when it comes to liquid product.

Options :

1. ✘ Only I

- 2. ✘ Only II
- 3. ✓ Both I and II
- 4. ✘ Neither I nor II

Question Number : 55 Question Id : 630680348003 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is the correct increasing order of densities of the given materials used in drug packaging?

Options :

- 1. ✘ Glass- Aluminium- Tinplate -Plastic
- 2. ✘ Plastic- Aluminium- Tinplate- Glass
- 3. ✘ Aluminium- Tinplate- Glass- Plastic
- 4. ✓ Plastic- Glass- Aluminium- Tinplate

Question Number : 56 Question Id : 630680348004 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which type of polyethylene is excluded from the discussion of pharmaceutical packaging materials because of its high level of extractables in hexane?

Options :

- 1. ✘ High-density polyethylene

2. Ultra low-density polyethylene
3. Linear low-density polyethylene
4. Low-density polyethylene

Question Number : 57 Question Id : 630680348005 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is considered to be the polyethylene restriction in drug packaging?

- I. Poor resistance to strong oxidizing acids.
- II. It will sorb steroid and bactericides.
- III. High permeability to halogens

Options :

1. I and II

2. II and III

3. I, II and III

4. Only II

Question Number : 58 Question Id : 630680348006 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

PVC displays a number of characteristics that makes it an excellent material for blister packs and for bottles. Which of the following is NOT one of them?

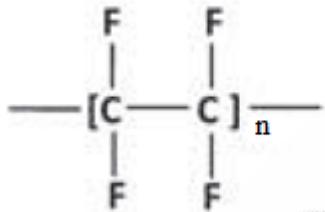
Options :

1. ✘ High flexural strength
2. ✓ High permeability to oils, fats and flavorings
3. ✘ Chemical resistance
4. ✘ Easy tinting

Question Number : 59 Question Id : 630680348007 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Identify the structure of the polymer.



Options :

1. ✓ Polytetrafluoroethylene
2. ✘ Polyvinylidene chloride
3. ✘ Polystyrene
4. ✘ Acrylonitrile

Question Number : 60 Question Id : 630680348008 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

How many FDA classifications are there of medical devices?

Options :

1. ✘ Five

2. ✘ Two

3. ✘ Four

4. ✓ Three

Question Number : 61 Question Id : 630680348009 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The autoclave, found in most doctors' and dentists' offices, is used to sterilize medical instruments. An autoclave is a pressure vessel that reaches temperatures above ____.

Options :

1. ✓ 100°C

2. ✘ 20°C

3. ✘ 30°C

4. ✘ 50°C

Question Number : 62 Question Id : 630680348010 Is Question Mandatory : No Calculator : No

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

There are four steps to an EtO sterilization cycle. Arrange the given steps in the correct order.

- A. Air removal
- B. Steam injection, temperature conditioning, and dwell
- C. EtO injection and dwell
- D. Gas purge and replacement with air

Options :

1.  A-B-C-D

2.  D-B-C-A

3.  A-C-B-D

4.  B-D-C-A

Question Number : 63 Question Id : 630680348011 Is Question Mandatory : No Calculator : No

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the packaging of horticultural crops?

- I. Bags are the most commonly used packaging materials for frozen fruits and vegetables due to their flexibility during processing and handling.
- II. Packaging of frozen fruits is done to exclude air from the fruit tissue.

Options :

1.  Only I

2.  Only II

3. Both I and II

4. Neither I nor II

Question Number : 64 Question Id : 630680348012 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

In Modified Atmosphere Packaging (MAP) technology, the packages are made of _____.

Options :

1. Paper bags

2. Plastic films

3. Tinplate

4. Aluminium foil

Question Number : 65 Question Id : 630680348013 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which type of glass is normally used in the cosmetic industry for packaging purposes?

Options :

1. Soda glass

2. Sulphated glass

3. ✘ Neutral glass

4. ✘ Borosilicate glass

Question Number : 66 Question Id : 630680348014 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT a form of soap packaging?

Options :

1. ✘ Envelope packing

2. ✘ Cartoning

3. ✘ Pleat wrapping

4. ✓ HDPE Jars

Question Number : 67 Question Id : 630680348015 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

With respect to typical packages used for hazardous chemicals, choose the correct pair and identify the correct option.

I. Heavy metal salts – Polylined fibre board

II. Aromatic amines – Closed Head M.S. Drums (45 Gallon)

Options :

1. ✘ Only I

2. ✘ Only II
3. ✓ Both I and II
4. ✘ Neither I nor II

Question Number : 68 Question Id : 630680348016 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the packaging of liquid pesticides in India?

- I. Only technical grade liquid pesticides may be packed in quantities up to 200 litres in a container.
- II. Aluminium used in the fabrication of containers shall be of minimum 99.5% purity.

Options :

1. ✘ Only I
2. ✘ Only II
3. ✓ Both I and II
4. ✘ Neither I nor II

Question Number : 69 Question Id : 630680348017 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Match the following confection type with their type of deterioration.

	Confection type		Type of deterioration
1	Boiled sweets	I	Syrup formation and syrup bloom
2	Milk chocolate	II	Graining and stickiness
3	Fruit jelly goods	III	Slight effect

Options :

1. ✘ 1-III, 2-I, 3-II

2. ✘ 1-I, 2-III, 3-II

3. ✓ 1-II, 2-I, 3-III

4. ✘ 1-II, 2-III, 3-I

Question Number : 70 Question Id : 630680348018 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the packaging of chocolates?

- I. They require protection against odour and flavour pickup.
- II. Solid chocolate does not require high water impermeability of packaging material.
- III. Waxed paper can be used as a packaging material.

Options :

1. ✘ I and II

2. ✘ II and III

3. ✓ I, II and III

4. ✘ Only II

Question Number : 71 Question Id : 630680348019 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following packaging material in the increasing order of their water vapour transmission rate (WVTR) and choose the correct option.

- A. Waxed paper
- B. Polystyrene
- C. Polyester

Options :

1. ✓ A-C-B

2. ✘ C-B-A

3. ✘ A-B-C

4. ✘ B-A-C



Question Number : 72 Question Id : 630680348020 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which cellophane is used for packaging fatty, flavour and moisture sensitive confectionaries?

Options :

1. ✓ MXXT

2. ✘ MSAFT

3. ✘ MAFT

4. ✘ MSC

Question Number : 73 Question Id : 630680348021 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

How many days does it take for camphor leakage when using Biaxially-Oriented Polypropylene (BOPP) and polyethylene as packaging material?

Options :

1. ✓ 13

2. ✘ 6

3. ✘ 2

4. ✘ 1

Question Number : 74 Question Id : 630680348022 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following were the first type of packaging media used for packaging all types of paints?

Options :

1. ✓ Tin plate-based containers

2. ✘ Steel containers
3. ✘ Aluminium collapsible tubes
4. ✘ Aerosol containers

Question Number : 75 Question Id : 630680348023 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following paper packaging and example of use is correctly matched?

Options :

1. ✓ Greaseproof – Paper for bakery products
2. ✘ Kraft – Potato chips
3. ✘ Sulphite – Fruits
4. ✘ Glassine – Liners for corrugated boards

Question Number : 76 Question Id : 630680348024 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is NOT correct regarding Surlyn films?

Options :

1. ✘ It has excellent moisture barrier.

2. ✘ It is commonly used for packaging processed and fresh meats.
3. ✓ It has high temperature sealability.
4. ✘ It has high melt strength.

Question Number : 77 Question Id : 630680348025 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following are the main elements that underline all package designs which have a sales appeal?

- I. Information that informs and persuades
- II. Proper arrangement of the design elements on the package

Options :

1. ✘ Only I

2. ✘ Only II

3. ✓ Both I and II

4. ✘ Neither I nor II

Question Number : 78 Question Id : 630680348026 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Printer's type designs can be broadly divided into how many groups of letterforms?

Options :

1. ✘ Three

2. ✓ Five

3. ✗ Six

4. ✗ Two

Question Number : 79 Question Id : 630680348027 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the use of pictures on the package?

- I. The selection of the pictures and their arrangement should be done by the artists.
- II. They should be chosen more for marketing reasons than for aesthetic reasons.

Options :

1. ✗ Only I

2. ✗ Only II

3. ✓ Both I and II

4. ✗ Neither I nor II

Question Number : 80 Question Id : 630680348028 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

With respect to the facts related to using colour when designing packaging, which colour generally arouses excitement or irritation?

Options :

1. ✘ Yellow

2. ✓ Red

3. ✘ Green

4. ✘ Blue

Question Number : 81 Question Id : 630680348029 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the shape of the package?

- I. The larger the area of undisturbed background colour on a package, the greater is its apparent size.
- II. Change in size or shape of the pack brings a symbolic change.
- III. The rectangular boxes should be avoided.

Options :

1. ✘ I and III

2. ✘ Only II

3. ✓ I and II

4. ✘ I, II and III

Question Number : 82 Question Id : 630680348030 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Unlike other commodities, there is a kind of readymade formula for surface designs of food packages. According to this formula, which statement is incorrect?

Options :

1. ✘ The brand-name at the top
2. ✘ The product denomination below the brand
3. ✓ Pictures on the upper part of the package
4. ✘ An illustration of product on the lower part of the package

Question Number : 83 Question Id : 630680348031 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which is the most ideal text type for letters that are to be reversed while designing the package?

Options :

1. ✘ Helvetica
2. ✘ Arial
3. ✘ Times New Roman
4. ✓ San Serif

Question Number : 84 Question Id : 630680348032 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The remembrance value is higher if the brand name on the product packaging conveys the ____.

Options :

1. ✗ purpose of the product

2. ✓ nature of the product

3. ✗ harms of the product

4. ✗ theme of the product

Question Number : 85 Question Id : 630680348033 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

When the side panels or even the flaps of a product package are used to advertise other products by the same manufacture, it is known as ____.

Options :

1. ✓ cross advertising

2. ✗ search advertising

3. ✗ indirect advertising

4. ✗ print media advertising

Question Number : 86 Question Id : 630680348034 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

When using plywood as sheathing or floorboard material in packaging, which type is the best economical selection?

Options :

1. ✘ Type A–B interior plywood with exterior glue

2. ✘ Type-A bond glues

3. ✘ Type-D bond glues

4. ✓ Type C–D interior plywood with exterior glue

Question Number : 87 Question Id : 630680348035 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is correctly matched with respect to the woods used during packaging designing?

I. Boxes – Group II and III

II. Skids – Group IV

Options :

1. ✘ Only I

2. ✘ Only II

3. ✓ Both I and II

4. ✘ Neither I nor II

Question Number : 88 Question Id : 630680348036 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

A paperboard made from waste paper, used in low-grade packaging, solid fiber and book-board is a _____.

Options :

1. Chipboard
2. Machine-glazed board
3. Tube board
4. Food board

Question Number : 89 Question Id : 630680348037 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following aerosol propellants in the decreasing order of their global warming potential in years and choose the correct option.

- A. Propane
- B. Nitrous oxide
- C. Carbon dioxide

Options :

1. A-B-C
2. A-C-B
3. C-B-A
4. B-C-A

Question Number : 90 Question Id : 630680348038 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT one of the basic elements of printing?

Options :

1. ✘ The plate
2. ✘ Printing ink
3. ✘ Printing machine
4. ✓ Artwork

Question Number : 91 Question Id : 630680348039 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the intaglio plate form?

- I. Printing is performed by using the fat-coated printing area that repels water.
- II. The lead type or photosensitive resin plate is commonly used.

Options :

1. ✘ Only I
2. ✘ Only II
3. ✘ Both I and II
4. ✓ Neither I nor II

Question Number : 92 Question Id : 630680348040 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

In which year, the photosensitive resin plate for flexographic printing was developed in the U.S.?

Options :

1. ✓ 1973

2. ✗ 1975

3. ✗ 1978

4. ✗ 1980

Question Number : 93 Question Id : 630680348041 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Offset printing has which of the following characteristics?

- I. It is suitable for multicolour printing.
- II. Large-sized plates are easily made

Options :

1. ✗ Only I

2. ✗ Only II

3. ✓ Both I and II

4. ✘ Neither I nor II

Question Number : 94 Question Id : 630680348042 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The sleeve-type cylinder in packaging is also called the _____.

Options :

1. ✘ shaft-welded cylinder

2. ✓ mandrel-type cylinder

3. ✘ laser-engraved cylinder

4. ✘ rotogravure cylinder

Question Number : 95 Question Id : 630680348043 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following steps of photoengraving process in the correct order and choose the correct option.

- A. Colour original
- B. Direct colour scanner
- C. Stripping
- D. Reversing

Options :

1. ✘ C-B-A-D

2. ✓ A-B-C-D

3. ✘ B-C-A-D

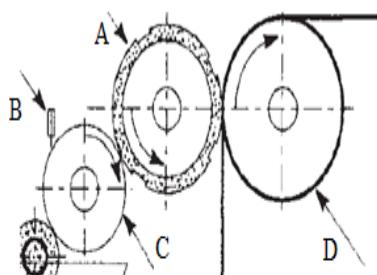
4. ✘ D-C-A-B

Question Number : 96 Question Id : 630680348044 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Consider the image of a typical flexographic printing station and match the given alphabets with their correct labels.



	Alphabet		Label
1	A	I	Doctor plate
2	B	II	Plate cylinder
3	C	III	Impression cylinder
4	D	IV	Anilox roll

Options :

1. ✘ 1- III, 2-I, 3-IV, 4-II

2. ✓ 1- II, 2-I, 3-IV, 4-III

3. ✘ 1- II, 2-IV, 3-IV, 4-I

4. ✘ 1- III, 2-II, 3-IV, 4-I

Question Number : 97 Question Id : 630680348045 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the gravure printing process?

- I. It is based around an inking system which provides a high degree of consistency.
- II. Gravure inks are composed of pigment, resin binder, and-most frequently-a volatile solvent.
- III. All elements within the image are screened.

Options :

1. ✘ I and III

2. ✓ I, II and III

3. ✘ Only I

4. ✘ II and III

Question Number : 98 Question Id : 630680348046 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

In reductive colour mixing, three primary colours are used. Which of the following is NOT one of them?

Options :

1. ✘ Cyan

2. ✘ Magenta

3. ✘ Yellow

4. Green

Question Number : 99 Question Id : 630680348047 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which type of printing is also known as aniline printing?

Options :

1. Letter press printing

2. Offset lithography

3. Gravure printing

4. Flexographic printing

Question Number : 100 Question Id : 630680348048 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The oils used in printing ink industry are basically divided into three categories. Which of the following pair is correct regarding method?

I. Dry oils – Linseed oil

II. Semi-drying oils – Soyabean oil

III. Non-drying oils- Mineral oils

Options :

1. I and III

2. ✘ I, II and III

3. ✓ Only I

4. ✘ II and III

Question Number : 101 Question Id : 630680348049 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

How many types of flexo printers are there?

Options :

1. ✓ Three

2. ✘ Four

3. ✘ Two

4. ✘ Five



Question Number : 102 Question Id : 630680348050 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding printing on corrugated fibreboard?

I. It is usually done by letterpress using a rubber or resin plate.

II. The ink used is oily ink of oxidation polymerization type.

Options :

1. ✘ Only I

- 2. ✘ Only II
- 3. ✓ Both I and II
- 4. ✘ Neither I nor II

Question Number : 103 Question Id : 630680348051 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following steps of the Helio platemaking process in correct order.

- A. Colour original
- B. Continuous separate negative
- C. Continuous separate positive
- D. Continuous reflective
- E. Engraving

Options :

- 1. ✓ A-B-C-D-E
- 2. ✘ C-D-E-A-B
- 3. ✘ A-C-D-E-B
- 4. ✘ C-A-B-D-E

Question Number : 104 Question Id : 630680348052 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is the correct pair of type of bags and their sealing method?

- I. Bread bags – Sideweld
- II. Dry-cleaning bags – Bottom seal
- III. Primal-meat bags – Twin seal

Options :

- 1. ✘ I and III
- 2. ✘ Only II
- 3. ✓ I, II and III
- 4. ✘ Only I

Question Number : 105 Question Id : 630680348053 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

A type of packaging in which a single supplier for both the packaging material and the packaging machine, compatible with each other in one hand and with the product on the other hand is called _____.

Options :

- 1. ✘ vacuum packaging
- 2. ✓ system packaging
- 3. ✘ split packaging
- 4. ✘ shrink packaging

Question Number : 106 Question Id : 630680348054 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

With respect to the packaging consumption patterns, arrange the following sector in the increasing order of their percentage contribution.

- A. Pharmaceuticals
- B. Food
- C. Personal care/cosmetics

Options :

1. ✗ B-C-A

2. ✗ A-B-C

3. ✗ C-B-A

4. ✓ A-C-B

Question Number : 107 Question Id : 630680348055 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The entire operation of coated and laminated carton system is generally carried out automatically at a speed ranging from ____.

Options :

1. ✓ 40 to 200 cartons per minute

2. ✗ 60 to 100 cartons per minute

3. ✗ 30 to 70 cartons per minute

4. ✘ 200 to 300 cartons per minute

Question Number : 108 Question Id : 630680348056 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following characteristics of stand-up pouches is NOT correct?

Options :

1. ✘ Very adaptable for packaging of dry products and liquids.

2. ✘ They are environmentally sound.

3. ✓ They offer the use of only two-color graphics.

4. ✘ They offer cost savings, with reduced transportation costs.

Question Number : 109 Question Id : 630680348057 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

How many types of form-fill-seal (FFS) systems are there?

Options :

1. ✘ Five

2. ✓ Two

3. ✘ Three

4. ✘ Four

Question Number : 110 Question Id : 630680348058 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following pair of system packaging types and the products packed in the system is correct?

- I. Stand-up pouches – Tea and coffee
- II. Form-fill-seal (FSS) system – Chocolate and candy

Options :

1. ✘ Only I

2. ✘ Only II

3. ✓ Both I and II

4. ✘ Neither I nor II

Question Number : 111 Question Id : 630680348059 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which system refers to the entire system necessary to produce a commercially sterile product contained in a hermetically sealed container?

Options :

1. ✘ Active packaging system

2. ✘ Modified Atmosphere packaging system

3. ✘ Retort pouch system

4. ✓ Aseptic system

Question Number : 112 Question Id : 630680348060 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding packaging costs?

- I. It depend on the materials and production methods employed.
- II. Packaging can dramatically affect the cost of distribution.

Options :

1. ✘ Only I

2. ✘ Only II

3. ✓ Both I and II

4. ✘ Neither I nor II

Question Number : 113 Question Id : 630680348061 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

An aseptic system does NOT include which of the following elements?

Options :

1. ✘ Product heating

2. ✘ Hold tube

3. ✘ Flow control

4. ✓ Gauge meter

Question Number : 114 Question Id : 630680348062 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following features of scraped-surface heat exchanger (SSHE) is correct?

Options :

1. ✘ Low cost per unit area

2. ✘ Low operating cost

3. ✓ Low pressure drops

4. ✘ Small floor space requirement

Question Number : 115 Question Id : 630680348063 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following is used widely as a sterilant for packaging materials in the aseptic packaging system?

Options :

1. ✓ Hydrogen peroxide

2. ✘ Household bleach

3. ✘ Glutaraldehyde

4. ✘ Chloroxylenol

Question Number : 116 Question Id : 630680348064 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following radiation has been used for decades to decontaminate packaging materials for use in aseptic systems for packing acid and acidified foods?

Options :

1. ✘ Alpha radiation

2. ✓ Gamma-radiation

3. ✘ X-ray radiation

4. ✘ Beta radiation

Question Number : 117 Question Id : 630680348065 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Based on the type of packaging material and the method of forming the package, which of the following aseptic packaging systems are paired correctly?

I. Performed rigid plastic containers : Metal box freshfill

II. Thermoform-fill-seal : Conoflast

Options :

1. ✘ Only I
2. ✘ Only II
3. ✓ Both I and II
4. ✘ Neither I nor II

Question Number : 118 Question Id : 630680348066 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

With respect to the heat exchange systems used for aseptic processing of liquids, match the following equipment type with its respective space requirement?

	Equipment type		Space
1	Steam injection/infusion	I	Excellent
2	Plate heat exchange	II	High
3	Swept surface	III	Fair

Options :

1. ✓ 1-III, 2-I, 3-II
2. ✘ 1-I, 2-III, 3-II
3. ✘ 1-II, 2-I, 3-III
4. ✘ 1-II, 2-III, 3-I

Question Number : 119 Question Id : 630680348067 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following are the most important and functional components of a strip packaging machine?

- I. The Die Sealing Rollers (DSR)
- II. The roller shafts
- III. The roller shaft suspension system

Options :

1. ✘ I and II

2. ✘ II and III

3. ✓ I, II and III

4. ✘ Only I

Question Number : 120 Question Id : 630680348068 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The **vacuum** packaging system is NOT suitable for which of the following products?

Options :

1. ✘ Ground coffee

2. ✘ Primal cuts of fresh red meat

3. ✘ Cured meat

4. Bakery products

Question Number : 121 Question Id : 630680348069 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following film materials are used for strip packaging?

- I. Glassine paper
- II. Cellophane film

Options :

1. Only I
2. Only II
3. Both I and II
4. Neither I nor II

Question Number : 122 Question Id : 630680348070 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Dwell time is a concept related to _____.

Options :

1. Vacuum packaging
2. Active packaging
3. Aseptic packaging

4. Strip packaging

Question Number : 123 Question Id : 630680348071 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The aerosol valve influences the expulsion of product in which of the following ways?

- I. It may affect the particle size of the spray.
- II. It may influence the distribution of the spray.
- III. It determines the discharge rate.

Options :

1. I and II

2. II and III

3. I, II and III

4. Only I

Question Number : 124 Question Id : 630680348072 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following components of aerosol valve is normally made of Nitrile or Neoprene rubber?

Options :

1. The stem

2. The Gasket

3. ✘ The actuator

4. ✘ The spring

Question Number : 125 Question Id : 630680348073 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Label on which a portion of the design is raised giving a three-dimensional effect is called _____.

Options :

1. ✓ Embossed label

2. ✘ Neck label

3. ✘ Can label

4. ✘ Spot label

Question Number : 126 Question Id : 630680348074 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

The process of filling aerosol containers does NOT involve which of the following operations?

Options :

1. ✘ Product filling

2. ✘ Removal of air in the headspace

3. ✘ Swaging

4. ✓ Gas flushing

Question Number : 127 Question Id : 630680348075 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding skin packaging?

- I. Prevents contamination by dust and dirt.
- II. Pilfer proof and tamper proof pack
- III. Discards costly carton stuffing

Options :

1. ✘ I and II

2. ✘ II and III

3. ✓ I, II and III

4. ✘ Only I

Question Number : 128 Question Id : 630680348076 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

What is the maximum production speed with lug type of closure and machinery?

Options :

1. ✓ 700/min

2. ✘ 200/min

3. ✘ 400/min

4. ✘ 500/min

Question Number : 129 Question Id : 630680348077 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Identify the type of closure.



Options :

1. ✓ Crown closure

2. ✘ Lug closure



3. ✘ Roll on closure

4. ✘ CT closure

Question Number : 130 Question Id : 630680348078 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding roll-on closure?

- I. It is used in the food, carbonated beverage, and pharmaceutical markets where pressure sealing is required.
- II. The roll-on cap can be applied at high speeds.

Options :

- 1. ✘ Only I
- 2. ✘ Only II
- 3. ✓ Both I and II
- 4. ✘ Neither I nor II

Question Number : 131 Question Id : 630680348079 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following descriptions in their increasing order of their standard bottle finishes.

- A. Two-lug Amerseal quarter-turn finish
- B. Medium CT concealed-bead finish
- C. Beverage crown finish

Options :

- 1. ✓ A-B-C
- 2. ✘ B-C-A
- 3. ✘ C-A-B
- 4. ✘ A-C-B

Question Number : 132 Question Id : 630680348080 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the material used in closures?

- I. The largest market for steel closures is vacuum packaging.
- II. Phenol-formaldehyde closures are hard and dense.
- III. Most thermoplastic closures are produced by injection moulding.

Options :

1. ✘ I and II

2. ✘ II and III

3. ✘ Only I

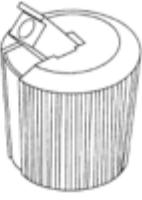
4. ✓ I, II and III

Question Number : 133 Question Id : 630680348081 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Match the following types of closures with their respective image.

	Type of closure		Image
1	Push-pull closure	I	
2	Flip-spout closure	II	
3	Snip top closure	III	

Options :

1. ✘ 1-III, 2-I, 3-II

2. ✘ 1-I, 2-III, 3-II

3. ✓ 1-II, 2-I, 3-III

4. ✘ 1-II, 2-III, 3-I

Question Number : 134 Question Id : 630680348082 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

American Society for Testing and Materials (ASTM) has divided polyethylene into _____ general categories according to density.

Options :

1. ✓ four

2. ✘ three

3. ✘ five

4. ✘ two

Question Number : 135 Question Id : 630680348083 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Instantaneous and delayed-action are which type of labels?

Options :

1. ✘ Uncoated labels

2. ✓ Heat-Sensitive Labels

3. ✘ Conventional gummed labels

4. ✘ Pressure sensitive labels



Question Number : 136 Question Id : 630680348084 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Before the advent of RFID, all labels were visible to the naked eye. What is the expanded form of RFID?

Options :

1. ✘ Random Frequency Identification

- 2. ✘ Radio Frequency Ink
- 3. ✓ Radio Frequency Identification
- 4. ✘ Random Foil Identification

Question Number : 137 Question Id : 630680348085 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which type of test involves qualitative and quantitative tests to verify that packaging materials or their additives do not adversely affect the flavour of products?

Options :

- 1. ✓ Organoleptic tests
- 2. ✘ Flexible packaging tests
- 3. ✘ Vacuum tests
- 4. ✘ Peel tests

Question Number : 138 Question Id : 630680348086 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

What is the bulk density of puffed rice type of packaging?

Options :

1. ✘ 22 kg/m³

2. ✘ 15 kg/m³

3. ✘ 42 kg/m³

4. ✓ 92 kg/m³

Question Number : 139 Question Id : 630680348087 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following properties of aluminium foil is NOT correct?

Options :

1. ✘ It does not embrittles at low temperatures.

2. ✘ It is completely non-toxic.

3. ✘ It cools and heats rapidly.

4. ✓ Drugs can't be packed in direct contact with it.

Question Number : 140 Question Id : 630680348088 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following flexible packaging materials in their decreasing order of oil resistance value and choose the correct option.

- A. Polyester
- B. PT Cellulose
- C. Polythene (LDPE)

Options :

1. ✘ C-A-B

2. ✘ A-C-B

3. ✘ B-C-A

4. ✓ B-A-C

Question Number : 141 Question Id : 630680348089 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

In which laminating process, polyethylene or a copolymer is extruded through a slot die onto two materials to be just combined just prior to nip roller?

Options :

1. ✘ Dry bonding

2. ✓ Extrusion bonding

3. ✘ Thermal bonding

4. ✘ Wet bonding

Question Number : 142 Question Id : 630680348090 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following pairs of foil products and their end uses is correct?

- I. Light gauge strip – Air conditioners
- II. Flexible laminates – Veterinary products

Options :

- 1. Only I
- 2. Only II
- 3. Both I and II
- 4. Neither I nor II

Question Number : 143 Question Id : 630680348091 Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following processes of manufacture of self-adhesive tapes in the correct order.

- A. Coating of adhesive on backing
- B. Drying
- C. Slitting to size
- D. Winding
- E. Packing

Options :

- 1. B-D-E-C-A
- 2. A-C-E-B-D

3. ✘ D-C-E-A-B

4. ✘ B-D-C-E-A

Question Number : 144 Question Id : 630680348092 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following option is correct regarding the increasing order of their thickness of bottom, top and side boards of various classes of packing cases?

Options :

1. ✘ Class B, Class C, Class A

2. ✓ Class C, Class B, Class A

3. ✘ Class C, Class A, Class B

4. ✘ Class B, Class A, Class C



Question Number : 145 Question Id : 630680348093 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following properties of biaxially oriented polypropylene films is NOT correct?

Options :

1. ✘ It has the lowest moisture absorption rate.

2. ✘ Among all plastic films it has lowest specific gravity.

3. ✳ It has the best combination of transparency and gloss.

4. ✓ It has low tear initiation strength.

Question Number : 146 Question Id : 630680348094 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

To reduce the packaging solid-waste, the exporters are advised to follow which of the following priorities?

- I. Incineration
- II. Land fill
- III. Reusability

Options :

1. ✳ I and II

2. ✳ II and III

3. ✓ I, II and III

4. ✳ Only III



Question Number : 147 Question Id : 630680348095 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

All the Indian exporters are advised to use eco-friendly packaging for their products. The use of which of the following materials should be restricted as far as possible?

- I. Laminated cartons
- II. Bitumenised packaging materials

Options :

1. ✘ Only I
2. ✘ Only II
3. ✓ Both I and II
4. ✘ Neither I nor II

Question Number : 148 Question Id : 630680348096 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Arrange the following polymers in the increasing order of their oxygen permeability (nmol/m).

- A. Vinylidene chloride copolymers
- B. Nylon-6
- C. Polypropylene

Options :

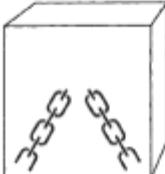
1. ✘ C-B-A
2. ✘ B-C-A
3. ✓ A-B-C
4. ✘ A-C-B

Question Number : 149 Question Id : 630680348097 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Match the following symbols with respect to packaging.

	Symbol		Meaning
1		I	Center of gravity
2		II	Fragile, handle with care
3		III	Sling here

Options :

1.  I-1, II-2, III-3

2.  I-2, II-1, III-3

3.  I-3, II-2, III-1

4.  I-2, II-3, III-1

Question Number : 150 Question Id : 630680348098 Is Question Mandatory : No Calculator :

None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 2 Wrong Marks : 0

Which of the following statements is correct regarding the process of unitization in cargo shipping?

- I. The bundling of pipe is one of its examples.
- II. Purpose is to reduce cubage.

Options :

1. Only I
2. Only II
3. Both I and II
4. Neither I nor II

