

BV (6/CBCS) FPM/FPT-VE-6026/23

2023

**FOOD PROCESSING AND QUALITY
MANAGEMENT / FOOD PROCESSING
AND TECHNOLOGY**

QP : Production Manager

Paper : FPM/FPT-VE-6026

(Food Packaging)

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following as directed : $1 \times 7 = 7$

(a) SWAMA stands for

(i) Standard Weight and Measure Act

(ii) Switzerland Weight and Measure Act

(iii) Sweden Weight and Measure Act

(iv) None of the above

(Choose the correct answer)

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(Turn Over)

- (b) Lacquering of cans helps in
- (i) preventing cans from discoloration
 - (ii) providing cheaper way of colouring the can
 - (iii) providing mechanical strength
 - (iv) preventing cans from shock during transportation
- (Choose the correct answer)

- (c) Resins are added in paper to
- (i) improve printability
 - (ii) improve gloss
 - (iii) improve opacity
 - (iv) All of the above
- (Choose the correct answer)

- (d) A secondary package is that
- (i) which directly holds the product for sale
 - (ii) which contains the primary package
 - (iii) whose prime purpose is to protect the product during distribution
 - (iv) None of the above
- (Choose the correct answer)

(3)

- (e) EVOH stands for
- (i) Ethylated Vinyl Alcohol
 - (ii) Ethylene Vinyl Alcohol
 - (iii) Ethyl Vinyl Alcohol
 - (iv) Ethylidene Vinyl Alcohol
- (Choose the correct answer)

- (f) Nitrogen is convenient for gas packaging because
- (i) it is an inert gas
 - (ii) it influences neither the color of meat nor its microbiological quality
 - (iii) Both (i) and (ii)
 - (iv) it is easy to incorporate nitrogen into the package than carbon-dioxide and oxygen
- (Choose the correct answer)

(g) What is shrink wrapping?

2. Answer very short answer-type questions :

2×4=8

- (a) What do you mean by WVTR and GTR?
- (b) What are the differences between bursting strength and tensile strength?
- (c) Define packaging.
- (d) Write briefly the importance of edible films.

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3. Answer any *three* of the following questions :

5×3=15

- (a) Write notes on two-piece can and three-piece can.
- (b) What is bar code? Write five benefits of bar coding in food packages.
- (c) Write the different functions of packaging.
- (d) Write a short note on active packaging and intelligent packaging.
- (e) Explain the working of FFS machine.

4. Answer any *three* of the following questions :

10×3=30

- (a) What are paper and paper board? How are they manufactured? Explain.
- (b) What are the different packaging laws and regulations used in food product? Explain.
- (c) Discuss the steps involved in the manufacture of tin can. Give reasons for tin corrosion. What is TFS?
- (d) Write the packaging requirements of the following :
 - (i) Milk and dairy products
 - (ii) Dehydrated foods
 - (iii) Fruits and vegetables
 - (iv) Meat

(5)

(e) Write short notes on the following :

(i) Vacuum packaging

(ii) MAP

(iii) Flexible packaging

(iv) Tetra pack

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