

2 0 2 3

FOOD PROCESSING (AGRI)

QP : Quality Assurance Manager

Paper : FPA-VC-4026

(Packaging in Food Processing Unit)

Full Marks : 60

Time : 3 hours

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

1. Fill in the blanks/Answer the following :

1×7=7

- (a) C-enamel cans are used for packaging of _____ foods.
- (b) The full form of WVTR is _____.
- (c) ASTM stands for _____.
- (d) What are indicators?
- (e) Time-Temperature Indicator is a _____ type of food packaging system.
- (f) _____ is the process of removal of air from the cans.
- (g) What is lacquering?

(2)

21862
12218

2. Answer the following questions :

2×4=8

- ② Diff. PCB
QA
- ③ Short note
on Food Safety
& Labelling
- (a) Differentiate between active and intelligent food packaging system.
- (b) Mention the two different types of metal cans used for food packaging.
- (c) Mention the advantages of active and intelligent food packaging system over traditional packaging.
- (d) What are the advantages of bio-composites?

137, 782

3. Answer any three of the following questions :

5×3=15

- (a) What is barcode? Write four benefits of bar coding in food packages. 1+4=5
- (b) Write five requirements for an effective food packaging system.
- (c) Mention the differences between paper and paperboard. What is meant by shrink wrapping? 3+2=5
- (d) Mention five important properties of paper as a packaging material.
- (e) Write a short note on vacuum packaging system.

(3)

4. Answer any three of the following questions :

(a) Define food packaging. Explain with example the different types of food packaging system. Mention the functions of food packaging. $10 \times 3 = 30$
 $2 + 4 + 4 = 10$

(b) What is aluminium foil? Write five important properties of aluminium foil. Differentiate between CAP and MAP. $2 + 5 + 3 = 10$

(c) What are the different types of FFS machine? Explain each type. Mention two applications of FFS machine in Food Processing. $2 + 6 + 2 = 10$

(d) Explain the process of aseptic packaging system with a suitable flowchart. $6 + 4 = 10$

(e) Mention the essential labelling requirements on a food package under Indian law. Write a short note on smart packaging system. $5 + 5 = 10$
