

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
(For candidates admitted during the academic year 2016 - 2017 & thereafter)

**B.Voc. DEGREE EXAMINATION - APRIL 2024**  
**FOOD PROCESSING AND QUALITY CONTROL**  
**FOURTH SEMESTER**

**COURSE : MAJOR ELECTIVE**  
**PAPER : FOOD PACKAGING**  
**SUBJECT CODE : 16VF/VE/FP45**  
**TIME : 3 HOURS**

**MAX.MARKS: 100**

**SECTION – A**

**ANSWER ALL QUESTIONS:**

**(20 X 1 = 20)**

**I. Fill in the blanks:**

1. Paper cannot be used for \_\_\_\_\_ seal.
2. Laminated cartons are sterilized using \_\_\_\_\_.
3. Packed butter must be prevented from exposure to light to avoid \_\_\_\_\_.
4. Retort pouches are the examples for \_\_\_\_\_ .
5. Cellophane contains \_\_\_\_\_ as plasticizer.

**II. State whether true or false:**

6. Baked food - Edible
7. Packaging - LDPE bags
8. Collagen - PET bottles
9. Butter - Protection
10. Carbonated soft drinks - Parchment paper

**III. Match the following:**

11. The thicker layer in tetra pack is plastic.
12. Compostability is one of the important properties of packing materials.
13. Traditional packaging is more sustainable than the edible packaging.
14. Glassine is a good barrier to the oil that covers all fried snack products.
15. Glass has excellent interness.

**IV. Expand the following:**

16. PVC
17. PET
18. VFFS
19. GTR
20. TFS

**SECTION B**

**Answer any FOUR questions:**

**(4 x 10 = 40 )**

21. Recall the different levels of packaging.
22. Describe the packaging system for frozen foods.
23. How will you predict the self-life of foods?
24. Distinguish WVTR and GTR.
25. How are Nanoparticles used in food packaging?
26. Explain the emerging trend on edible films and its usage in food industry.

**SECTION C****Answer any TWO questions:****(2 x 20 = 40)**

27. Elaborate the mechanism of vacuum packaging and MAP. Add a note on the kinds of food packed under vacuum.
28. Validate paper for use as a packaging material. Explain its types.
29. Justify why glass can be the best packaging material for foods. List out its advantages and disadvantages.
30. Describe the following methods of packaging with examples.
  - a. Form fill seal.
  - b. Aseptic packaging.
  - c. Shrink packaging.

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