

**072104T4DPR**  
**Dairy Processing Level 4**  
**DA/OS/PM/CR/05/4**  
**Package Milk Products**  
**July/Aug 2023**



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
COUNCIL (TVET CDACC)**

**WRITTEN ASSESSMENT**

**Time: 2 Hours**

**INSTRUCTIONS TO CANDIDATE**

1. This paper has **TWO** Sections **A** and **B**.
2. You are provided with a separate answer booklet.
3. Marks for each question are as indicated.
4. Do not write on the question on the question paper.

**This paper consists of FOUR(4) printed pages.**

**Candidates should check the question paper to ascertain that all pages are  
printed as indicated and that no questions are missing.**

**SECTION A: (10 Marks)**

Answer **all** questions in this section.

Each question carries one Mark.

1. Lactobacillus rhamnosus bacteria has the following benefit in milk.
  - A. Contributes to ill healthy gut
  - B. Does not support digestive health
  - C. Supports immune health
  - D. Infects the gut
2. Identify the correct definition of milk packaging.
  - A. Packaging is the process of wrapping a material around a consumer item or a technology of enclosing a product for distribution, sale or storage.
  - B. The value of wrapping milk
  - C. Selection of packaging materials
  - D. Various materials for package
3. The following is the correct definition of value addition in milk, EXCEPT.
  - A. Value addition entails the addition of time, place or form utility to milk to meet consumer's needs.
  - B. They are those things done on milk
  - C. Transporting of milk
  - D. Measure of quantities of milk
4. Select information that is NOT found on a milk packaging material.
  - A. Date of Manufacture
  - B. Date of Expire
  - C. Lot Number
  - D. Selling Price
5. Which of the following statement gives the correct definition of Aseptic packaging
  - A. Filling of sterile containers with a commercially sterile product under aseptic conditions, and then sealing the containers so that reinfection is prevented; that is, so that they are hermetically sealed.
  - B. Filling of sterile containers with a commercially unsterile product under aseptic conditions, and then sealing the containers so that reinfection is prevented; that is, so that they are hermetically sealed.

- C. Filling of sterile containers with a commercially sterile product under septic conditions, and then sealing the containers so that reinfection is prevented; that is, so that they are hermetically sealed.
  - D. Filling of unsterile containers with a commercially sterile product under aseptic conditions, and then sealing the containers so that reinfection is prevented; that is, so that they are hermetically sealed.
6. Identify a statement that is TRUE about plain glass bottles
- A. Provides the disadvantage of direct viewing of the product contained in it.
  - B. It has the disadvantage of exposing the milk to ultra violet rays that deteriorate it.
  - C. Always breaks when opening product for use
  - D. Plain glass bottles are the cheapest packaging materials
7. At what temperature should milk be stored in a refrigerator to prevent spoilage
- A. At 5 degree celcius
  - B. Above 5 degree celcius
  - C. Above 4 degree celcius
  - D. Below 4 degree celcius
8. A good package material for milk should be \_\_\_\_\_
- A. allow spillage
  - B. of adequate size and shape
  - C. Strong enough and not easy to open
  - D. Soluble with product
9. \_\_\_\_\_ are those package which come into contact with food products
- A. Primary package
  - B. Secondary package
  - C. Tertiary package
  - D. Inventory package
10. Identify a material commonly used for single –serve milk packaging
- A. Glass
  - B. Plastic
  - C. Aluminium
  - D. Paperboard

**SECTION B: (40 Marks)**

*(Answer all questions in this section)*

11. Outline THREE limitations of packaging milk. (3 Marks)
12. Identify THREE damages due to different hazards that a good packaging material protects the product against. (3 Marks)
13. State THREE benefits of aseptic packaging materials in dairy industry. (2 Marks)
14. Name FIVE Requirements for a suitable milk packaging material. (5 Marks)
15. List FIVE functions of milk packaging material. (5 Marks)
16. Identify FIVE information a milk package conveys to the consumer. (5 Marks)
17. Packaging is considered as 5th P of Management, identify the other 4 Ps. (4 Marks)
18. Identify FOUR packaging materials in Milk processing. (3 Marks)
19. State any FOUR packaging lines in milk packaging. (4 Marks)
20. List THREE packaging processes in Milk. (3 Marks)
21. Identify the role of the following THREE layers in a tetra Pak carton. (3 Marks)
  - I. Polyethylene\_\_\_\_\_
  - II. Paper\_\_\_\_\_
  - III. Aluminium\_\_\_\_\_