D 130672	(Pages : 2)	Name
		Reg. No

FIFTH SEMESTER B.VOC. DEGREE EXAMINATION, NOVEMBER 2025

Dairy Science and Technology

SDC5DT25—DAIRY PLANT DESIGN AND LAYOUT

(2021 Admissions)

Time: Two Hours

Maximum: 60 Marks

Section A

All questions can be answered. Each question carries 2 marks. Ceiling 20 Marks.

- 1. How can proper hygiene help in preventing milk spoilage?
- 2. How do safety and sanitation requirements impact the layout of a dairy plant?
- 3. How often should drain cleaning and maintenance be carried out in a dairy plant?
- 4. What types of roofing material is suitable for a diary plant?
- 5. What are some benefits of multi level design for a dairy plant?
- 6. What are the properties for building materials for a diary plant?
- 7. What are the best materials for milk piping in a diary plant?
- 8. What are the primary requirements for a diary floor finisher?
- 9. What are the minimum space requirements for a small scale dairy plant?
- 10. What is the role of insulation materials in the construction of a dairy plant?
- 11. What are the advantages of using Steel for constructing a diary plant?
- 12. What is the ideal slope for drains in a dairy plant?

Turn over

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Section B (Paragraph)

All questions can be answered.

Each question carries 5 marks.

Ceiling 30 Marks.

- 13. What are the factors to be considered while selecting lighting for a diary plant?
- 14. What are some common challenges associated with locating diary plants in rural areas?
- 15. What are the safety requirements for a dairy plant?
- 16. What are the common methods for fly control in a diary plant?
- 17. How do we prevent growth of bacteria in milk piping and other equipments?
- 18. Evaluate the importance of flexibility in office layouts within dairy plants.
- 19. What are the benefits of proper ventilation in a dairy plant?

Section C (Essays)

Answer any **one** of the following.

The question carries 10 marks.

- 20. What are the key design considerations that must be taken into account while implementing each type of floor plan for a diary plant?
- 21. Draw the layout of a single product diary:
 - a) Butter; and
 - b) Cheese.

 $(1 \times 10 = 10 \text{ marks})$