D 52990	(Pages : 2)	Name
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THIRD SEMESTER B.VOC. DEGREE EXAMINATION NOVEMBER 2023

Fish Processing Technology

SDC 3FI 12—FREEZING TECHNOLOGY IN SEA FOOD PLANTS

(2021 Admissions)

Time: Two Hours and a Half

Maximum: 80 Marks

Section A

Each question carries 2 marks. Ceiling 25 Marks.

- 1. What is freezer burn?
- 2. What is shelf life?
- 3. What are the physical changes during freezing?
- 4. Eutectic point.
- 5. What is an immersion freezer?
- 6. What are the chemical changes occurring in proteins due to freezing?
- 7. What is the effect of post-mortem condition on sensory qualities of fish?
- 8. What are the advantages and disadvantages of thawing?
- 9. Explain freezing methods.
- 10. Define fluidized bed freezing.
- 11. Define oxidation.
- 12. What are natural food additives?
- 13. Define GMP.
- 14. What are the physical changes during freezing?
- 15. What is an Antioxidant?

Turn over

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Section B

2

Each question carries 5 marks. Ceiling 35 Marks.

- 16. Describe atomic structure of water.
- 17. What are the steps involved in freezing of fishery products?
- 18. What is a plate freezer?
- 19. What are the chemical changes occurring in nucleotides due to freezing?
- 20. Different methods of thawing frozen fish.
- 21. Does the colour of frozen food change after thawing?
- 22. What are the recent advances in fish thawing?
- 23. What is the difference between slow freezing and slow freezing?

Section C

Answer any **two** questions. Each question carries 10 marks.

- 24. What is fish fillet? Explain the treatments, glazing, packaging and freezing of fish fillet
- 25. What are the changes in texture, taste, odour occurring during freezing and frozen storage?
- 26. What is Thawing? What are the advantages and disadvantages of thawing?
- 27. Compare slow freezing and quick freezing.

 $(2 \times 10 = 20 \text{ marks})$