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M. Voc DEGREE (C.S.S.) EXAMINATION, NOVEMBER 2021

[2021 Admissions Regular and 2020 Admissions Improvement & Supplementary]

SEMESTER I - SKILL (FOOD PROCESSING TECHNOLOGY) VFPT1S02TM20 - NOVEL TRENDS IN FOOD PROCESSING

Time: 3 Hours Maximum Weight: 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

- 1. Define the process 'Steeping' and give an example of its use
- 2. Identify the key ingredient in Pickling and mention its role
- 3. What is meant by 'impeller' of a mixing equipment? Identify the impellor used for mixing low viscous liquids
- 4. Distinguish between the terms 'Grading' and 'Sorting' of agricultural produce
- 5. Develop a flow chart for the canning of tomatoes
- 6. Define 'Vacreation' and mention its purpose
- 7. Identify the key principles that High Pressure Processing depends on
- 8. List the effects of low temperature processing on biological active tissues of fruits and vegetables
- 9. List the principles that hurdle technology is based on
- 10. List examples of hurdles that are used to preserve foods

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

- 11. Classify preservation techniques on the basis of mode of their action
- 12. Describe the concept of Food Perishability
- 13. Write a note on the various types of grinding equipment that are used for size reduction process
- 14. Mention on the requirements that have to be looked into when incorporating a homogeniser in the HTST/UHT pasteurization system
- 15. Explain briefly on the process of Sterilization with an emphasis on the different types present
- 16. Draw a schematic diagram on the equipment utilised for freeze concentration and elaborate on the various steps involved for this process
- 17. With the help of a schematic diagram, explain on the various components used in an High Pressure Processing equipment
- 18. Give a note on history of Food Irradiation

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

- 19. Elaborate on the mode of preservative action by bacteriocins
- 20. Outline the theories that govern the process of Homogenization. Mention a note on types of homogenizer with diagrams

- 21. Deduce the working of a Drum drier. Add a note on the different types that are available.
- 22. Recall the non thermal technology of food processing that works with the utilisation of an electric field and explain its mechanism