TM241336X

역···

Reg. N	o :
Name	

MASTER'S DEGREE (C.S.S) EXAMINATION, NOVEMBER 2024 2024 ADMISSIONS REGULAR

M. VOC FPT SEMESTER I - SKILL

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. State the principles of food preservation.
- 3. Identify the key processes that govern Mixing
- 4. What is meant by 'impeller' of a mixing equipment? Identify the impellor used for mixing low viscous liquids
- 5. Define 'Vacreation' and mention its purpose
- 6. List down the objectives of blanching.
- 7. List down the benefits of food irradiation technology.
- 8. List the effects of low temperature processing on biological active tissues of fruits and vegetables
- 9. List down a few applications of PEF and irradiation techniques in food industry.
- 10. Hurdle technology has an essential role in food processing. Justify with suitable example.

Part B

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

(6x2=12)

- 11. Elaborate briefly on the principle groups of micro organisms used for food fermentation
- 12. Briefly explain the fermented foods and microorganisms associated with it.
- 13. Size reduction and mixing can be achieved by homogenization technique. Justify.
- 14. Explain the effects of drying on food products.
- 15. Illustrate the working of cabinet drier and tunnel drier.
- 16. Explain the role of CAS on preservation of fruits, vegetables and meat.
- 17. Explain the various changes taking place on a freeze dried and HPP methods.
- 18. Explain on how hurdle technology can be applied in food industries.

Part C

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

(2x5=10)

- 19. Traditional preservation methods have been modified for the betterment of food industries. Justify.
- 20. Explain in brief on the following membrane filtration techniques (a) Electrodialysis (b) Ultrafiltration (c) Reverse Osmosis (d) Nanofiltration
- 21. Deduce the working of a Spray drier. Add a note on the categorisation done for different types of spray driers
- 22. Recall the non thermal technology of food processing that works with the utilisation of an electric field and explain its mechanism