

B.Sc (Hons) FNS Semester-4 Examination**FNS 223 .****Food Process Tech & New Prod Dev****Time : 2-30 Hours]****April-2024****[Max. Marks : 70**

Instructions: Illustrate your answers with neat diagrams wherever necessary.

Q. 1 Write the following

- (i) Explain physiological, social and psychological functions of food processing. (7 Marks)
- (ii) Explain general principles of refrigerated storage, their types with example. (7 Marks)

OR

- (i) Write a short note on various factors affecting food processing methods. (7 Marks)
- (ii) Write a short note on various storage techniques used in food processing (7 Marks)

Q.2 Write the following

- (i) Explain extrusion process and its classification in detail with example. (7 Marks)
- (ii) Explain modern technologies involved in food processing industry. (7 Marks)

OR

- (i) Explain types of mechanical graders used in fruits and vegetable sorting. (7 Marks)
- (ii) Explain role of non-meat ingredients in meat processing. (7 Marks)

Q. 3 Write the following

- (i) What is NPD as per consumer and manufacturer? Explain the product life cycle in detail. (7 Marks)
- (ii) Explain the principles of new product development. (7 Marks)

OR

- (i) Explain the consumer behaviour in FMCG product and the factors affecting it. (7 Marks)
- (ii) Describe the factors affecting product success. (7 Marks)

Q. 4 Write the following

- (i) What is food quality evaluation? Enlist the methods and explain any two in detail. (7 Marks)
- (ii) Explain the paired comparison test, Describe the A Not A procedure in detail (7 Marks)

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OR

- (i) Explain the rank orders in detail (7 Marks)
- (ii) Describe the analysis of rheological properties in detail (7 Marks)

Q. 5 Attempt any seven out of twelve (14 Marks)

- (i) What is scope of food technology?
- (ii) Enlist components of food technology.
- (iii) Explain pasteurisation method.
- (iv) Explain candling technique.
- (v) What is difference between grading and sorting?
- (vi) What is evisceration process in poultry industry?
- (vii) What is IQF products? Give an example.
- (viii) What is Triangle test ?
- (ix) What is Duo- trio test ?
- (x) What is texture analyser ?
- (xi) Explain Color measurement system
- (xii) What is hedonic scale?

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