

MSc Sem.-2 Examination

409

Food Science

May-2025

Time : 2-30 Hours]

[Max. Marks : 70

Instructions: Illustrate your answers with neat diagrams wherever necessary.

Q. 1 Write the following

- (i) Define NPD. Explain the steps involved in NPD in detail. (7 Marks)
- (ii) What are line extensions? Explain from manufacturer's point of view with example. (7 Marks)

OR

- (i) What are factors affect success of any new product in the market. Explain internal and external factors? (7 Marks)
- (ii) What is product life cycle? Explain with suitable example. (7 Marks)

Q.2 Write the following

- (i) Explain the role of socio-cultural and economic factors that affect consumer behavior in purchasing food? (7 Marks)
- (ii) Write a note on Ultrafiltration? (7 Marks)

OR

- (i) What are Agitation and its importance in food processing technology? (7 Marks)
- (ii) Describe Reverse osmosis in detail? (7 Marks)

Q. 3 Write the following

- (i) Enlist different types of food fortification methods. Describe any two in detail. (7 Marks)
- (ii) Write a detailed note on : (7 Marks)
- (a) Biodegradable plastics
- (b) Modified Atmosphere Packaging

OR

- (i) Explain in detail about the food additives along with their uses in processed food products. (7 Marks)
- (ii) Provide a detailed note on chilies along with their importance. (7 Marks)

Q. 4 Write the following

- (i) Write a note on types of food service system? (7 Marks)
- (ii) Write a note on types of menus? (7 Marks)
- OR
- (i) Differentiate between commercial & non-commercial catering. (7 Marks)
- (ii) Write a note on human resource management? (7 Marks)

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Q. 5 Attempt any seven out of twelve

(14Marks)

- (i) What do you mean by perception?
 - (ii) Define high pressure processing (HPP) technology?
 - (iii) Define ultrafiltration?
 - (iv) Define food fad?
 - (v) Write two benefits of agglomeration food processing technology?
 - (vi) What is SHU? Explain.
 - (vii) Define spices.
 - (viii) Which is the costliest natural flavour in the world?
 - (ix) Which plant part is used for extracting the vanilla flavour?
 - (x) Define consumer acceptability index.
 - (xi) What is SWOT analysis?
 - (xii) Define Biofortification.
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