

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023  
(Second Semester)

Branch – FOODS AND NUTRITION

FOOD QUALITY AND SAFETY MANAGEMENT

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Who invented the Histogram and line chart as statistical tools?  
(i) Juran (ii) William Playfair  
(iii) Deming (iv) Shewart
- 2 Indicate the year in which PFA is legally enforced as a statutory body in India.  
(i) 1965 (ii) 1973  
(iii) 1986 (iv) 1954
- 3 Identify the Headquarters of CODEX.  
(i) Italy (ii) Rome  
(iii) Geneva, Switzerland (iv) Newyork
- 4 Choose the term refers the activities, other than monitoring, that establish the validity of the HACCP plan and ensure that the HACCP system is operating according to the plan.  
(i) Deviation (ii) Validation  
(iii) Corrective action (iv) Verification
- 5 Which regulation allows the use of coloring agents in Indian food products?  
(i) 3.1.3 of Food Safety & Standards regulation 2011  
(ii) 3.1.4 of Food Safety & Standards regulation 2011  
(iii) 3.1.2 of Food Safety & Standards regulation 2011  
(iv) 3.1.5 of Food Safety & Standards regulation 2011

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain about food quality indices.  
OR  
b Food sampling is essential for accuracy and precision – Justify.
- 7 a Explain the benefits of TQM.  
OR  
b State the functions of AGMARK in food certification.
- 8 a Discuss about Organisational structure and setting standards of CAC / RCP – 1.  
OR  
b Illustrate about Food Safety audits.
- 9 a Determine the significance of GAP in ensuring quality assurance.  
OR  
b Discuss about risk assessment in food products.

Cont...

- 10 a Sketch about Organic foods and its certification for sustainable living.  
OR  
b Evaluate the functions of FSSAI.

**SECTION -C (30 Marks)**

Answer ALL questions  
ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 a Comment on the basic statistical tools relevant to food industries.  
OR  
b Justify the need and methods regarding indexing food for Nutritional Quality.
- 12 a Explain the process in the Development of TQM for Milk industry.  
OR  
b Discuss on the structure and functions of GFSI and BRC.
- 13 a Explain about CAC / RCP – 1 establishment design and control of operations.  
OR  
b Explain about leadership and planning in terms of ISO 22000 – 2018.
- 14 a Describe the methodology of developing a food safety plan.  
OR  
b Elucidate about biological hazards in food safety system.
- 15 a Enumerate about licensing and Registration of food products in India.  
OR  
b Discuss about objectives, structure and Functional framework of FSSAI.

Z-Z-Z

END