



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – FOOD CHEMISTRY AND FOOD PROCESSING

THIRD SEMESTER – APRIL 2023

PFP 3502 – LIVESTOCK PROCESSING

Date: 04-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

PART – A

(10 x 3 = 30 Marks)

Q. No

Answer ALL questions

- 1 Define sarcomere.
- 2 Write about the shrinkage temperature of collagen.
- 3 Define Thaw Rigor.
- 4 What are the factors that affects the quality of meat?
- 5 What are the spoilage indications of fish?
- 6 What are psychrotrophic microorganisms?
- 7 Mention the grading of eggs based on its weight in grams.
- 8 Justify the antibacterial action of egg white proteins.
- 9 Write any three reasons for processing poultry.
- 10 What is evisceration?

PART – B

(5 x 8= 40 Marks)

Answer ALL the questions

- 11 (a) Give a brief account on the various methods of flaying of animal after slaughter.
(OR)
(b) Illustrate sliding filament theory with a neat diagram
- 12 (a) Explain in detail the various factors that affects the shelf life of meat.
(OR)
(b) Discuss briefly about cured, dried and pickled meat.
- 13 (a) Comment on the perishability factors of fish.
(OR)
(b) Give a brief account on the classification of fish.
- 14 (a) Write a detailed note on the different equipments used in poultry processing
(OR)
(b) Diagrammatically represent an egg. (5 marks)
What are the factors affecting the egg quality? (3 marks)

15 (a) Discuss the grading of egg within the shell and outside the shell.

(OR)

(b) Explain any two egg production systems. (5 marks)

Write a brief note on 'Designer eggs'. (3 marks)

PART – C

(2 x 15 = 30 Marks)

Answer any TWO questions

16 Explain in detail rigor mortis in meat with a neat flow diagram.

17 Discuss in detail the various methods of preservation of fish.

18 Explain the need to process poultry and highlight the various sequences of events in a poultry processing unit.

19 Enumerate the egg formation sequence and highlight the functional role of egg white proteins.

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