2018

M.Sc.

4th Semester Examination

FISHERIES SCIENCE

PAPER-FSC-401

Subject Code-28

Full Marks: 40

Time: 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Unit-I

(Fish Processing Technology,
Food Safety and Quality Assurance)

- 1. Answer any two questions from the following:
- 2×2

(a) What is meant by shelf life of fish?

- (b) Write the proximate composition of Pomfret.
- (c) Why fast freezing is advantageous than slow freezing?
- (d) State the benefit of IQF.
- 2. Answer any two questions from the following: 2×4
 - (a) Write a brief account on the personal hygiene and environmental hygiene to be followed in a fish processing plant.
 - (b) Describe the quality control of fishery products for the internal market.
 - (c) How much ice to be required for presentration of 150 kg freshwater prawn from 20°C - 0°C ? (Specific heat of fish 4 J/g and latent heat of ice is 334.7 KJ)
 - (d) Briefly narrate the method of quality assessment.
- 3. Answer any one question from the following: 1×8
 - (a) (i) What is fish spoilage?
 - (ii) Briefly explain the causes of fish spoilage.

(iii)	Add a	note on	post-mortem	bio-chemical	changes
	of fish	tissues.			1+3+4

(b) Short note:

2×4

- (i) Cryogenic freezing;
- (ii) Freezing curve.

Unit—II

(Fisheries Extension, Fisheries Economics & Marketing)

- **4.** Answer any two questions from the following: 2×2
 - (a) What is 'marginal utility' and 'total utility'?
 - (b) Define 'GDP' Add a note on fisheries GDP in India.
 - (c) Explain demand curve. Write the factors effect on demand curve.
 - (d) State the objective of KVK in respect of fisheries point of view.

- 5. Answer any two questions from the following: 2×4
 - (a) Explain the role played by the women in Indian fisheries.
 - (b) Describe the Socio-economic characteristics of marine fishers.
 - (c) Discuss about the contribution of MPEDA in fisheries development.
 - (d) Give an idea about aquaculture project cycle.
- **6.** Answer any *one* question from the following: 1×8
 - (a) (i) What do you mean by fisher flock?
 - (ii) Discuss in details the role of FFDA for fisheries development of India.
 - (iii) Add a note on BFDA.

- 2+4+2
- (b) (i) State the objectives of fisheries extension.
 - (ii) Discuss in details the fisheries extension methods.
 - (iii) Add a note on NGO's helps in fisheries extension.
 - 1+4+3