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PG/4th Sem/FSC/19

2019

M.Sc.

**4th Semester Examination**  
**FISHERIES SCIENCE**

**Paper - FSC 401**

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.*

**Unit - I**

**(Food Safety and Quality Assurance)**

1. Answer any *two* questions from the following :

2×2=4

- (a) Distinguish between homogenous and heterogenous nucleation.
- (b) What is peeling and deveining ?
- (c) Mention the composition of muscles of any one shell fish.

[ Turn Over ]

(d) Indicate the significance of IQF.

2. Answer any *two* questions from the following :

2×4=8

(a) Describe briefly any two thawing methods employed in fish processing.

(b) State the packaging requirements of frozen fish.

(c) Briefly comment on the Microbial hazards of fishery products.

(d) State in brief the methods of prawn freezing on commercial scale.

3. Answer any *one* question from the following :

1×8=8

(a) (i) Comment on quality assurance and quality control.

(ii) State the composition of HACCP team with a note on their responsibilities.

(iii) Add a note on organoleptic test. 3+3+2

(b) Short Note : 4+4

(i) Smoking of fish

(ii) Fish spoilage

Unit - II

**(Fisheries Extension, Economics and Marketing)**

4. Answer in brief any *two* questions from the following : 2×2=4

- (a) What do you mean by Participatory Rural Appraisal (PRA) ?
- (b) Indicate the different factors responsible for price determination of a fish market.
- (c) Define law of demand and supply.
- (d) Write down the characteristics of an Entrepreneur.

5. Answer any *two* questions from the following : 2×4=8

- (a) Write down the role of FFDA in fisheries development in India.
- (b) Discuss about the specific role of KVK in fisheries development.
- (c) Socio-economic analysis of fisher —how do you account for that ?

[ Turn Over ]

(d) Enumerate the importance of extension teaching methodology.

6. Answer *one* questions from the following :  $1 \times 8 = 8$

(a) (i) What do you mean by extension ?

(ii) Write down the primary objectives of fisheries extension.

(iii) Enlist the different principles of fisheries extension.  $2+3+3$

(b) (i) Classify different market.

(ii) Write on priority basis the problems of Indian fish market.

(iii) Discuss the role of MPEDA with particular reference to the export of different fishery products.  $2+2\frac{1}{2}+3\frac{1}{2}$

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