

## FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, MARCH 2020

(CUCSS)

Zoology

ZO4 ET 12—FISHERY SCIENCE—III : HARVESTING, POST-HARVESTING  
TECHNOLOGY AND MARKETING

Time : Three Hours

Maximum : 36 Weightage

**Part A**I. Short answers. Answer *all* questions :

- 1 What is TED ?
- 2 What is padal fishery ?
- 3 Distinguish between chilling and freezing.
- 4 What are jigs ?
- 5 Mention the objectives and activities of MPEDA.
- 6 What is catch per unit effort ?
- 7 Major International sea food markets of India.
- 8 What is a PD shrimp ?
- 9 Mention the advantages of long lines.
- 10 What is destructive fishing ?
- 11 Scientific names of commercially important lobsters of India.
- 12 What is the significance of icing ?
- 13 Name any *two* pathological indicator species.
- 14 What is accelerated freeze drying ?

(14 × 1 = 14 weightage)

**Part B**II. Answer in a *paragraph*. Answer any *seven* :

- 15 What is the principle of drying ? Explain different types of artificial dryers.
- 16 Discuss the role of fishermen co-operatives in fishery management.

**Turn over**

- 17 Comment on the importance of otter boards in trawl net operations.
- 18 Enlist the advantages of RSW on on-board handling of fresh fish.
- 19 Describe the different varieties of pre-processed cephalopods.
- 20 Explain the mechanism and control of fish protein denaturation.
- 21 Discuss the role of refrigerated containers in seafood export.
- 22 Enlist the major quality problems in seafood.
- 23 Comment on the sterilization of ice and water in processing plants.
- 24 Explain different methods of salting.

(7 × 2 = 14 weightage)

### Part C

III. Essay type. Answer any *two*.

- 25 What is canning ? Explain the steps involved in the canning process.
- 26 Write an essay on the major types of crafts and gears used in captive fisheries of India.
- 27 Discuss the methods for microbiological quality assessment of seafood products.
- 28 Enumerate the various by-products obtained from fishes.

(2 × 4 = 8 weightage)