

2022

1st Semester Examination
FISHERIES SCIENCE

Paper : FSC 103

Full Marks : 40

Time : Two 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-103.1

[Anatomy and Physiology of fishes]

1. Answer any *two* of the following : 2×2=4
- (a) What is gastrointestinal hormone of fish ?
 - (b) What is podobranch gills and arthrobranchs gills ?
 - (c) Write name of arteries involved in blood circulation of prawns.
 - (d) Compare among gastric and agastric fish.
2. Answer any *two* questions from the following : 4×2=8
- (a) Briefly explain the structure and functions of hepatopancreas.

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- (b) Describe in brief the structure of freshwater prawn stomach with diagram.
- (c) State the structural view of gills in Cyclostomes and Elasmobranch with diagram.
- (d) Briefly narrate the digestive structure of any teleost fish with diagram.

3. Answer any *one* of the following : 8×1=8

(a) What is endocrine gland of fishes ? Elucidate the structure of pituitary gland of fish with diagram. Add a note on the Interrenal tissue and Corpuscles of Stannius. 2+3+3=8

(b) Write a short note on : 4+4

(i) Lymphatic system of fishes

(ii) Haematopoiesis 4+4

Unit-103.2

[Fisheries Technology and Harbor Engineering]

4. Answer any *two* of the following : 2×2=4

(a) State the ideal characteristics of fishing craft.

(b) What is traditional fishing ?

(c) What is Turtle Excluder Device (TED) ?

(d) Enlist name of 4 indigenous fishing crafts used in Maharashtra coast.

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

- (a) Write a brief note on life saving appliances used in fishing vessels.
- (b) Briefly explain different ideal features of floats and sinkers.
- (c) Describe advanced communication system used in fishing vessels.
- (d) Distinguish between Mechanised and non-mechanised fishing vessel.

6. Answer any *one* of the following : 8×1=8

- (a) What is fishing harbor ? Give a brief account on public health hygiene and waste disposal in fishing harbor. 1.5+(2.5+4)
 - (b) Write a short note on : 4+4=8
 - (i) Maintenance of different fishing gears
 - (ii) Fishing Vessel Monitoring System.
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