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M.Sc. (Semester-II) Examination, 2022

ZOOLOGY

(Fish Biology : Aquatic Resources and their Conservation)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Passing Marks : 25

Note : This question paper is divided into four sections. All sections are **compulsory**. Attempt questions as per given instructions in each section.

SECTION-A

(Objective Type Questions)

Note : Attempt **all** questions. Each question carries **1** mark.

[1x10=10]

1. (i) Who is called as 'Father of Limnology'?

(a) Welch

(b) Hutchinson

(c) Forel

(d) Yoshimura

(ii) Intermediate layer of standing water which prevents mixing of upper and lower layer is called:

(a) Thermohaline

(b) Thermocline

(c) Thermotropic

(d) Thermolimnion

(iii) Which set of the following fishes is identifiable with waters of peninsular India?

(a) L. potail, T. putitora, T. khudree

(b) L. rohita, L. bata, Tor putitora

(c) Labeo potail, L. porcellus, Puntius carnaticus

(d) Mystus vittatus, L. rohita, Channa punctatus

(iv) Mahseer is the popular name for:

(a) Salmo sp.

(b) Tor sp.

(c) Labeo sp.

(d) Garra sp.

(v) Which of the following may be rated as cold water fish?

(a) Labeo rohita

(b) Labeo calbasu

(c) Labeo dyocheilus

(d) Labeo bata

(vi) National Research Centre on Cold Water fisheries is stationed at :

(a) Bhimtal

(b) Deorital

(c) Uttarkashi

(d) Nainital

(vii) Ootacamund lake is situated in :

(a) Maharashtra

(b) Tamil Nadu

(c) Kumaon

(d) Kerala

(viii) 'Self brine' is the term associated with :

(a) Canning

(b) Picking

(c) Smoking

(d) Salting

(ix) Anguilla sp. are generally :

(a) Cold smoked

(b) Hot smoked

(c) Canned

(d) Salted

(x) Trout belong to the order:

(a) Cypriniformes

(b) Salmoniformes

(c) Anguilliformes

(d) Perciformes

SECTION-B

(Very Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **02** marks. (Word limit: 25-30 words) [5x2=10]

2. Comment on following :

(i) Eutrophic Lakes

(ii) Define a lake.

(iii) What are reservoirs?

(iv) Hydrography

(v) Photic zone

(vi) Tuna

(vii) Mangroves

(viii) Fish spoilage

SECTION-C

(Short Answer Type Questions)

Note : Attempt **any five** questions. Each question carries **04** marks. [5x4=20]

3. Write short notes on the following in 250 words :

(i) Riverine fisheries

(ii) Lacustrine fisheries

(iii) Biology of Mackerel

(iv) Coral reefs

(v) Fish fauna of Godavari and Krishna river system.

(vi) Fecundity

(vii) Rigor mortis

(viii) Bio-physico-chemical characteristics of cold waters.

SECTION-D

(Essay Type Questions)

Note : Attempt **any three** questions. Each question carries **10** marks. Answer in more than **500** words. [3x10=30]

4. (i) What do you mean by cold water fisheries? Describe the biology of important cold water fishes of India.

(ii) Define gear and a craft. Describe traditional and conventional method of fishing.

(iii) What do you mean by Estuarine fisheries? Give an account of major estuarine system of India.

(iv) What are the marine fishery resources of India? Discuss about the coastal and offshore fisheries in India.

(v) What is aquatic pollution? Describe types and sources of aquatic pollution and also add a note on impact of pollution on aquatic organisms.

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