

G-4/443(A)/21

Roll No.

M.Sc. IV Semester Examination, 2021

ZOOLOGY

Paper III

(Aquaculture and Fisheries)

Time : 3 Hours]

[Max. Marks : 80

Note : *All questions are compulsory. Question Paper comprises of 3 sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.*

SECTION A

1×8=8

(Objective Type Questions)

1. Match the following :

- (a) Air breathing catfish – Pisciculture
- (b) Culture of more than one species – Inland fisheries
- (c) Climbing perch – clasper
- (d) Formation of pulmonary artery in lung fishes – Lampreys
- (e) Presence of sucking mouth – Anabas

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- (f) Modified pelvic fin –IV aortic arch for copulation
- (g) Raising and capturing of fishes in fresh water – polyculture
- (h) Production of fishes – Claviar bactrechus

SECTION B

4×6=24

(Short Answer Type Questions)

Note : *Attempt one question from each unit.*

Unit-I

1. Write the general charactres of Dipnoi.

Or

Write the general charactres of Teleostomi.

Unit-II

2. Describe the effect of light and water temperature or fresh water fish farming.

Or

Describe wet bundh breeding.

Unit-III

3. Explain fish cum paddy culture in brief.

Or

Describe maintenance of fish aquarium.

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Unit-IV

4. Describe the fish preservation techniques.

Or

Describe viral diseases in fish.

SECTION C

12×4=48

(Long Answer Type Questions)

Note : *Attempt one question from each unit.*

Unit-I

1. Describe evolution and phylogeny of placoderm.

Or

Describe evolution and phylogeny of elasmobranchi.

Unit-II

2. Describe construction and maintenance of fresh water fish farm.

Or

Explain induced breeding technique.

Unit-III

3. Describe composite fish culture.

Or

Describe intensive culture of air-breathing fishes.

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Unit-IV

4. Describe prawn fishery.

Or

Describe pearl fishery.

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