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M.Sc. (Fourth Semester) EXAMINATION, May-June, 2022

ZOOLOGY

(OPTIONAL GROUP-A)

Paper Fourth

[Pisciculture and Economic Importance of Fishes
Ichthyology]

Time : Three Hours]

[Maximum Marks:80

Note : Attempt all sections as directed

SECTION-A

(Objective/Multiple Choice Questions)

Note : Attempt all Questions

Choose the Correct Answer :

1. Which of following is suitable for fish forming.
(A) Eel
(B) Tuna
(C) Tilapia
(D) Sardine

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2. Spinal deformities in farmed fish occur due to the deficiency of
(A) Vitamin A
(B) Vitamin D
(C) Vitamin B
(D) Vitamin C
3. — is the term used for breeding of fish. in specially constructed tanks and ponds.
(A) Viticulture
(B) Agriculture
(C) Horticulture
(D) Pisciculture
4. Blue revolution is related with the following.
(A) Fish production
(B) Milk production
(C) Food grain production
(D) Oil Seed production
5. What is the optimum salinity requirement for breeding of *maerdorachium malcolmsoni*
(A) 10-10ppt
(B) 18-20ppt
(C) 12-14 ppt
(D) None of these

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6. Which of the following state is the leading producer of inland fish.
- (A) Andhra Pradesh.
 - (B) Kerala
 - (C) Bihar
 - (D) West Bangal
7. Which is cat fish?
- (A) Clarias botraeus
 - (B) Bagarius
 - (C) Tanchysurus sona
 - (D) Mystus Seeghala
8. Which is Prawan?
- (A) Scylla Serrata
 - (B) Mugil Cephalus
 - (C) Macrobrachium Rosenbergi
 - (D) All of these
9. Which of the example of shellfish
- (A) Mussels
 - (B) oytes
 - (C) Scallops
 - (D) All the above

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10. Scientific name of Mangur_
- (A) Trichogaster Ficiatus
 - (B) Clarias Botrachus
 - (C) Xantodon Cancila
 - (D) Labeo Rohita
11. Catla is a
- (A) Mid water feeder
 - (B) Surface feeder
 - (C) Both (A) and (B)
 - (D) Column feeder
12. Which of the following is not a method of Preservation.
- (A) Chilling
 - (B) Baking
 - (C) Canning
 - (D) Salting
13. For disinfection of fish pond ___ amount of quick lime advisable.
- (A) 500 kg/ha
 - (B) 200kg/ha.
 - (C) 700 kg/ha
 - (D) 1000 kg/ha

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14. Bacterial disease includes.

- (A) Tail rot or fin rot
- (B) Frunculosis
- (C) Vibriosis
- (D) all the above

15. ___ is a fungal disease common in carps cat fishes and murels.

- (A) Bronchiomycosis
- (B) frunouloosis
- (C) Sparolegniosis
- (D) Ichthyophonous

16. Pearl is secreted by

- (A) Prismatic layer
- (B) connective tissue of mantle
- (C) Columar epithelium of mantle
- (D) Ciliated epithetium of mantle

17. Pearl Oyster belongs to a class.

- (A) Cephalopods
- (B) Palcyopodaec
- (C) Gustropoda
- (D) Scophopoda

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18. The best quality of Pearl

- (A) Ruby
- (B) Neelam
- (C) Linga
- (D) Emerald

19. Which aqua farming technology is most suitable for rural area.

- (A) Cage culture
- (B) Pen culture
- (C) Integrated fish farming
- (D) None of the above

20. Chitin and Chitosan is prepare from

- (A) Fish warte
- (B) Crustarean Shell
- (C) Fish Scale
- (D) Mollurecel Shell

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SECTION-B

(Very Short Answer Type Questions)

(2 marks each)

Note : Attempt all questions. Write answer in two- three sentences.

1. Write only names of different types of pond for fish farming.
2. Write definition of fish seed.
3. Name the fishes suitable for composite fish culture and why?
4. Definition of shore fisheries.
5. Give the name of two major carps.
6. What is mycosis?
7. Write name of two species of snails who helped in control of aquatic weeds.
8. Name two by product of fish.

SECTION - C

(Short Answer Type Questions)

(3 marks each)

Note- Attempt all questions.

1. Write precaution of transportation of fish.
2. Describe exotic fishes with suitable example
3. What is the difference between artificial and natural pearl.

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4. Write notes problem of Reverine fisheries.
5. Describe varicus esturies in India.
6. Explain physical condition of fresh water fish culture.
7. Write notes on composition of sewage.
8. Explain very short. What is fish traps.

SECTION D

(Long Answer Type Questions)

(5 marks each)

1. Write an essay on management of fish farming

OR

Write notes on collection of fish seed from natural resources.

2. Describe the Prawn culture.

OR

Describe pearl culture.

3. Describe the capture fisheries.

OR

Describe the Sewage treatment

4. Write notes on Protozoan fish parasit.

OR

Write notes on Preservation of fish.

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