

DAY - 16

SEAT NUMBER

2023

III

14

1100

V - 550

(E)

**FRESH WATER FISH CULTURE
PAPER - I (C-1)****Time : 3 Hours****4 Pages****Max. Marks : 50**

Instructions : (1) Question No. 1 is compulsory.

(2) Attempt any three questions from Q. Nos. 2, 3, 4 and 5.

(3) Attempt any one questions from Q. No. 6 and 7.

(4) All questions carry equal marks.

1. Fill in the blanks by choosing appropriate words, from the given below and rewrite sentences : (Any Ten)

10

(1) _____ is the example of margina aquatic weed.

- ☒ (i) Ipomoea
(ii) Vallisneria
(iii) Nymphaea

(2) Breakage in pond and cages are detected by _____.

- (i) Notopterus
☒ (ii) Clarias
(iii) Labeo

(3) _____ fish is the example of Weed Fish.

- ☒ (i) Ambacis.nama
(ii) Channa punctata
(iii) Mystus bleekeri

(4) _____ is reared in the rearing pond.

(i) Fingerling

☒ (ii) Fry

(iii) Spawn

(5) IN Japan, cages are used for culture of _____ fish.

(i) Tilapia mossambica

(ii) Cyprinus - carpio

☒ (iii) Yellow tail

(6) _____ symbol is used while mapping of submerged vegetation.

(i) T

(ii) $\perp$

☒ (iii) -

(7) Derris powder contain 5% _____.

(i) Saponin

☒ (ii) Rotenone

(iii) Nicotin

(8) The size of outer hatching hapa is _____.

☒ (i) $2 \times 1 \times 1$ m.

(ii) $3 \times 2 \times 1$ m.

(iii) $1.75 \times 0.75 \times 0.5$ m.

(9) _____ has a capacity of self purification.

(i) Concrete raceway

☒ (ii) Earthfill raceway

(iii) Circular raceway

(10) *Aeromonas punctata* is the causative agent of _____.

(i) White spot disease

☒ (ii) Dropsy

(iii) Tail and fin rot

(11) Sacchi - disc is used to determine _____ of water body.

(i) Temperature

(ii) Colour

☒ (iii) Turbidity

(12) Gill rot disease is caused by _____.

(i) *Saprolegnia*

☒ (ii) *Branchiomyces*

(iii) *Costia nictatrix*

2. Answer in one sentence each of the following : (Any Ten)

☒ (1) Define : Free board

☒ (2) What is Cage ?

☒ (3) Define liming of pond.

☒ (4) Give the use of agricultural gypsum.

☒ (5) What is Turbidity ?

☒ (6) Example of suitable fish poisons.

☒ (7) Define Sample.

☒ (8) Give scientific name of Grass Carp.

☒ (9) Mention length of Fry.

(10) Purpose of conditioning of fish seed.

☒ (11) Stocking rate of fingerling in stocking pond.

☒ (12) Give any two examples of predatory fishes.

3. Give appropriate reason : (Any Five)

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- (a) Nurseries are seasonal pond.
- (b) Old emulsion should be used in Fish Ponds.
- (c) Polyculture is more profitable than Monoculture.
- (d) Census method is advantageous for collection of data.
- (e) Why earthfill raceway is advantageous ?
- (f) Collection of statistics from fresh water resource is difficult.
- (g) Inlet and outlet must be provided with screen.

4. Write a short notes on the following : (Any Five)

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- (a) Outlet Pipe
- (b) Trapezoidal Formula
- (c) Biological control of aquatic weeds.
- (d) Stocking Pond
- (e) Pia Diagram
- (f) Cage Culture
- (g) Dropsy

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5. Write in detail account on 'Aquatic Weeds' with reference to following points : 10

- (a) Classification of aquatic weed based on habit and its definition.
- (b) Disadvantages of aquatic weeds.
- (c) Draw a well labelled diagram of Pistia.
- (d) Manual and mechanical method for eradication of weeds.
- (e) Chemical method for eradication of weeds.

6. Explain the Base Line Method of mapping of water body.

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OR

6. Write in detail on "Re-circulating Water System".

10

7. Discuss in detail preparation and management of rearing pond.

10

OR

7. What is Lining ? Describe any four methods of lining of fish ponds.

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