

DAY - 17

SEAT NUMBER

2025

III

04

1100

V - 50

(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** question from Q.No. 6 and 7.
 (4) All question carry equal marks.

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

10

(1) _____ is also caused as gill fluke.

(i) Gyrodactylus

(ii) Dactylogyrus

(iii) Fish Leech

(2) The scientific name of kingfisher is _____.

(i) Ardea cinerea

(ii) Alcedo atthes

(iii) Notopterus

(3) Size of inner hatching hapa is _____.

(i) $2 \times 1 \times 1\text{m}$

(ii) $1.75 \times 0.75 \times 0.50\text{m}$

(iii) $2.1 \times 1 \times 1\text{m}$

(4) ~~/~~ Stocking rate of spawn in nursery pond is _____.

(i) 10,000

(ii) 1,00,000

~~(iii) 10,00,000~~

~~(5) /~~ Daily dose of artificial food should be related to _____ of fish.

(i) Length

~~(ii) Weight~~

(iii) Age

(6) _____ is used for the final estimation of earth work.

(i) Thumb-rule Method

~~(ii) Trapezoidal Method~~

(iii) Prismoidal Method

(7) _____ is a dark coloured substance like tar.

(i) Gammaxine

~~(ii) Asphalt~~

(iii) Asbestos

~~(8) /~~ Sacchi disc is used for measured the _____.

(i) pH

~~(ii) Turbidity~~

(iii) Colour

~~(9) /~~ _____ method used for collected data from all individuals.

~~(i) Sample Survey~~

(ii) Census

(iii) Random

(10) The stocking ratio of Catla Labeo and Mrigal is _____ used in polyculture.

(i) 3 : 3 : 3

☒ (ii) 3 : 3 : 4

(iii) 4 : 4 : 3

(11) In _____ and _____ cage culture practiced traditionally for the cultivation of Tilapia and Magur.

(i) Russia and Japan

☒ (ii) Thailand and Myanmar

☒ (iii) Jawa and Combodia

(12) _____ is a phytoplankton.

☒ (i) Oscillatoria

(ii) Rotifers

(iii) Crustaceans

2. Give the answer in One sentence each of the following : (Any Ten)

10

(1) Size of spawn

(2) Causative agent of Gill rot disease.

(3) Give any two criteria for selecting weedicide.

(4) Which stage obtained from Rearing Pond ?

(5) Define : Bioagent

(6) Advantages of liming of pond.

(7) What is Free Board ?

(8) Give the use of agricultural gypsum.

(9) Any two significance of mapping.

(10) In which state of India cage culture is adopted ?

(11) Examples of suitable herbicides.

(12) What is Asphyxiation ?

3. Give appropriate reason of the following : (Any Five) 10
- ✓ (a) Polyculture is more profitable than Monoculture.
 - ✓ (b) Air breathing fishes cultivated in cages.
 - ✓ (c) Collection of statistics from fresh water fishery resources is difficult.
 - (d) Mahua oil cake is popular fish poison in India.
 - ✓ (e) Inlet pipe should be covered with screen.
 - ✓ (f) Wallago attu is unsuitable in the pond of carps.
 - (g) Lottary method is not used to take the sample from large sized population.
4. Write a short notes on the following : (Any Five) 10
- ✓ (a) Frequency Distribution Table
 - (b) Topography
 - ✓ (c) White Spot Disease
 - ✓ (d) Prismoidal Formula
 - ✓ (e) Pen Culture
 - (f) Lining of Pond
 - (g) Oil Emulsion Method
5. Write on Aquatic Weeds with reference to following : 10
- ✓ (a) Define and Classify Weeds
 - ✓ (b) Advantages and Disadvantages
 - (c) Algal Blooms
 - (d) Diagram of Grass Carp
 - ✓ (e) Manual and Mechanical Control
6. Describe in detail mapping methods with importance of method. 10
- OR**
6. Describe in detail preparation and management of Stocking Pond. 10
- ✓ 7. Describe in detail 'Cage Culture System' with advantages and disadvantages. 10
- OR**
7. Give the symptoms, causative agent and treatment of worm, crustacean and fungal diseases. 10