

DAY - 17

SEAT NUMBER

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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) Alcido athes

(iii) Notopterus

(3) Size of inner hatching hapa is _____.

(i) 2 × 1 × 1m

(ii) 1.75 × 0.75 × 0.50m

(iii) 2.1 × 1 × 1m

(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) Gammoxine
- ~~(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 <https://www.maharashtrastudy.com>
 - ✓ (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