

DAY - **19**

SEAT NUMBER

2026

III

06

1100

V - 730

(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)

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- (1) Population size is denoted by _____.

(i) n

(ii) N

(iii) S

- (2) For the largest ponds _____ mm diameter drain pipe is necessary.

(i) 203 to 305 mm

(ii) 153 to 203 mm

(iii) 150 to 200 mm

- (3) _____ is stocked in stocking pond.

(i) Spawn

(ii) Fry

(iii) Fingerlings

(4) Fish cultivation practiced on small scale, cage should be of _____ m. in size.

(i) $2 \times 1 \times 1$

(ii) $5 \times 4 \times 2$

(iii) $5 \times 4 \times 1$

(5) Water boatman an is _____.

(i) Anisop

(ii) Corixa

(iii) Ranatra

(6) Tamarind seed husk is _____.

(i) Chlorinated hydrocarbon

(ii) Organophosphate

(iii) Plant derivative

(7) Secchi disc is used to determine _____ of water.

(i) Turbidity

(ii) Temperature

(iii) Colour



(8) For composite culture, fishes should be _____.

(i) Competitor for food

(ii) Complementary for feeding

(iii) Feed on flesh and plants

(9) In the map of water body, emergent weeds are shown by _____ symbol.

(i) $\perp$

(ii) -

(iii) T

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(10) Thumbrule formula is _____.

- (i) $V = AV \times D$
- (ii) $V = d/2 (A_0 + 2A_1 + A_2)$
- (iii) $V = d/3 (A_0 + 4A_1 + A_2)$

(11) ~~Trapa~~ is a _____ weed.

- (i) Floating
- (ii) Marginal
- (iii) Emergent

(12) Size of rearing pond is _____.

- (i) 50' × 50' × 4'
- (ii) 90' × 30' × 4'
- (iii) 300' × 60' × 6'

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

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- (1) Give the use of agricultural gypsum.
- (2) Define : Sample
- (3) Give any two names of worm diseases.
- (4) What is Plankter ?
- (5) What is meant by fish predators ?
- (6) Define : Cage <https://www.maharashtrastudy.com>
- (7) Give importance of overhead shower in glass jar hatchery.
- (8) What is census enumeration ?
- (9) Which is the traditional method of fish cultivation ?
- (10) Give standard size of inner hatching hapa.
- (11) Define : Liming
- (12) Give the importance of Mahua-oil-cake in fish farming.

3. Give appropriate reason : (Any Five) 10
- Manuring is necessary in pond.
 - Pen culture method is disadvantageous.
 - Costiasis is also called blue slime disease.
 - Nursery ponds are seasonal ponds.
 - Compaction and ramming of embankment is necessary.
 - Plankton analysis is done in fishery survey.
 - Wallago attu is unsuitable in the ponds of carp.
4. Write a short notes on : (Any Five) 10
- Air embolism
 - Biological control of aquatic weeds.
 - Disadvantages of Recirculating Water System.
 - Polyculture and Monoculture
 - Hatching hapa (fixed)
 - Monk
 - Prismoidal formula
5. Name of causative agent, symptoms and treatment of following diseases : 10
- Dropsy
 - White spot disease
 - Aeruginosis
 - Saprolegnia
 - Dactylogyrosis
6. Describe 'Raceway Culture'. 10

OR

6. Describe 'Graphical and Diagrammatic representation of Data' with the help of following : 10
- Simple Bar Diagram
 - Multiple Bar Diagram
 - Component Bar Diagram
 - Pie Diagram
 - Significance of Diagram and Graphs
7. Write an essay on lining of Pond. 10

OR

7. Describe in detail steps involved in 'Preparation and Management of Nursery Pond'. 10