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BAQ-002

DIPLOMA IN AQUACULTURE (DAQ)

Term-End Examination

June, 2026

BAQ-002 : FRESHWATER AQUACULTURE

Time : 3 Hours

Maximum Marks : 100

Note : (i) *Attempt **five** questions in all.*

(ii) *Question No. 1 is compulsory.*

(iii) *All questions carry equal marks.*

(iv) *Draw a well labelled diagram wherever required.*

1. (a) Define the following terms : 5×1=5

(i) Lentic

(ii) Loam

(iii) Hypophysation

(iv) Nauplius

(v) Weed Fish

(b) Write full form of the following abbreviations : $5 \times 1 = 5$

- (i) CPE
- (ii) GTH
- (iii) HCG
- (iv) IMC
- (v) PGE

(c) Match Column A with Column B : $5 \times 1 = 5$

Column A

Column B

- | | |
|--|------------------------------------|
| (i) <i>Catla Catla</i> | (a) Introduced in India from Japan |
| (ii) <i>Barbus</i> | (b) Popular food fish |
| (iii) <i>Hypo-phthalmichthyes molitrix</i> | (c) Common predatory fish |
| (iv) <i>Cirrhinus mrigala</i> | (d) Common weed fish |
| (v) <i>Wallago</i> | (e) A Gangetic Carp |

(d) Write True (T) or False (F) : $5 \times 1 = 5$

- (i) Fishes having developed gonads with full ripe gametes are called mature fishes.

- (ii) The brood fishes are selected for induced breeding by December when they attain proper maturity.
 - (iii) Water used in hatchery should be rich in nutrients, especially copper, iron and zinc.
 - (iv) Hatcheries provide facilities for large scale indoor breeding and seed production of major carp.
 - (v) The fish are injected with ovaprim for inducing spawning.
2. (a) Describe the reproductive biology of carps. 15
- (b) Discuss the components of a hatchery. 5
3. (a) How does sewage fed aquaculture increase crop production and save on supplementary feeding ? 10
- (b) Explain the integration of fish farming with agriculture. 10

4. (a) Describe artificial propagation of trout fish. 10
- (b) Explain the culture of *Spirulina* as a commercial aqua produce. 10
5. Write short notes on any *two* of the following :
2×10=20
- (a) Biology of any *two* small cat fish
- (b) Breeding and seed production
6. (a) Explain the basics of hatchery operation. 14
- (b) Describe the various aspects of pond management while culturing prawn. 6
7. Give an account of various diseases of fish reared in freshwater aquaculture farms. 20

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