

**2018**

**2nd Semester**

**AQUACULTURE MANAGEMENT**

**PAPER—C4T**

**(Honours)**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

1. Answer any five Questions :

5×2

- (a) What do you mean by multiple breeding ?
- (b) Define internal and external fertilization in fish with suitable example.
- (c) Mention the criteria of a breeding pool.
- (d) What is crossing over ? State its importance.

*(Turn Over)*

(e) Mention the name of gears used for natural seed collection in West Bengal.

(f) Define Secondary Sexual Characters of fish.

(g) State about silent mutation.

(h) What is polyploidy?

2. Write a brief note on any *four* of the following : 4×5

(a) Pheromones in fish.

(b) Sex determination of fish.

(c) Gynogenesis.

(d) Parental care of fish (four fishes)

(e) Cryopreservation of fish gamate.

(f) Chinese circular hatchery.

3. Answer any *one* question :

1×10

(a) (i) Classify different types fish egg.

(ii) Give an idea of endocrine control during breeding of fish.