

Ornamental fishes

10. WEEK: MARINE ORNAMENTAL FISH KEEPING.

WEEKLY TOPICS (CONTENT)

1. Week	Ornamental fishes: General information
2. Week	Information on commercially valuable ornamental fish species
3. Week	Biology of ornamental fish (freshwater, brackish-water and marine, species.
4. Week	Popular ornamental fish species for culture.
5. Week	Candidate ornamental fish species for culture.
6. Week	Culture environment.
7. Week	Physical, chemical and biological requirements of Ornamental fish
8. Week	Freshwater ornamental fish keeping
9. Week	Brackishwater fish species keeping.
10. Week	Marine ornamental fish keeping.
11. Week	Feeding, reproduction, larva and fry rearing for freshwater ornamental fishes.
12. Week	Feeding, reproduction, larva and fry rearing for Brackshwater ornamental fishes.
13. Week	Feeding, reproduction, larva and fry rearing for marine ornamental fishes.
14. Week	Ornamental fish welfare and sustainable culture practices.

Issues to be considered in the breeding of marine fishes

Osmoregulation and discharge in marine environment

Osmoregulation and respiration in marine environment

Nutrient requirement in marine environment

Growth in marine environment

Reproduction in marine environment

Larval development in marine environment

Fry breeding in marine environment

Juvenile breeding in marine environment

Market size breeding in marine environment



Marine water fish physiology

Osmoregulation

Blood serum parameters

Haematological parameters

Hormones

Stress

Immunostimulants

Disinfection



Blood circulation

Circulatory system

Heart

Blood vessels

Capillaries

Gills

Primer lamella

Seconder lamella

Gas exchange



Mineral exchange

Mineral uptake

NaK ATPase

Liver enzymes

Digestive tract

Digestion

Assimilation

Absorption

Diet composition

Protein

Amino acids

Essential amino acids

Lipid

Fatty acids

Essential fatty acids



Diet composition

Minerals

Essential microelements

Vitamin

Essential vitamins

Vit A

Vit D

Vit E

Vit K

Vit C

Vit B and other vitamins

Water exchange rates

Feeding time

Foods specific for species

References

Boyd, C. E. (1982). Water quality management for pond fish culture. Elsevier Scientific Publishing Co..

Hunter, G. A., & Donaldson, E. M. (1983). 5 Hormonal Sex Control and its Application to Fish Culture. In Fish physiology (Vol. 9, pp. 223-303). Academic Press.