

ORNAMENTAL FISH CULTURE

Unit I

Importance of ornamental fish culture

Design and setting up of fish tank: Types, construction, accessories and maintenance of home aquarium
Aquarium plants and their uses.

Unit II

Popular tropical fresh water ornamental fishes and their characteristics

Live bearers – guppy, molly, platy and swordtail

Egg layers-fighter, gourami, angelfish, koi carp, zebra fish and red tailed shark

A compatible group of fishes for home aquarium

Food and feeding: artificial feeds-making pelleted food – quantity and time of feeding.

Unit III

Fish food organisms: Culturing micro algae, zooplankton, tubificid blood worms, brine shrimp.

Genetics and Biotechnology: Genetics of gold fish, koi carp, guppy and platy

Diseases and treatment methods in brief: Ectoparasite – anchor worm and argulus, white spot, fin rot, mouth fungus, dropsy and velvet disease.

Unit IV

Breeding of aquarium fishes: Conditioning to breed, signs, mode of reproduction; breeding of gold fish, fighter, angel fish and barbs, breeding of live bearers; Care of the fry

Techniques for the genetic improvement of these fishes.

Unit V

Economics of Commercial farming:

Construction and Management of commercial ornamental fish farm: Structure, construction and types; costs and returns estimate

Setting up of an exporting unit: Collection, breeding and rearing unit;

Reconditioning of export stock: transportation techniques – oxygen packing, method of packing, anesthetics use, transport and export consignment

Text Book:

Ramanathan et al., 2000, Tropical freshwater ornamental fish culture, Department of fisheries farm management, Veterinary and animal sciences University, Tamil Nadu.

References:

1. Dey. V.K. 1995, Hand book of aqua forming, MPEDA India
2. Jameson, J.D. Srinivasan. A. and Venkataramanujam. 1995, Ornamental fish culture technology, TANUVAS publication Chennai
3. Jameson, J.D. and Santhanam. R. 1996, Manual of ornamental fishes and farming technologies Peejay, Thoothukkudi.