



166

**SYLLABUS FOR FISHERY OFFICER**

**1. BFSc. Paper-I:**

**(a) Aquaculture**

1. Principles of Aquaculture
2. Fresh water Aquaculture
3. Fin fish breeding & Hatchery management
4. Pond and fish farm construction
5. Shell fish breeding & Hatchery management
6. Fish genetics & Biotechnology
7. Coastal Aquaculture
8. Fish nutrition and feed technology
9. Integrated Aquaculture
10. Upland cold-water fisheries
11. Fish disease diagnosis and management
12. Ornamental fisheries

**(b) Fisheries Resource Management**

1. Taxonomy of Finfishes
2. Fundamentals of microbiology
3. Biology of Fin and Shell Fishes
4. Taxonomy of shell fishes
5. Inland capture Fisheries
6. Food chemistry and nutrition
7. Anatomy of Fin and Shell fishes
8. Fish biochemistry
9. Physiology of Fin and Shell fishes
10. Marine capture fisheries
11. Population dynamics and stock assessment
12. Fishery microbiology and quality control

**(c) Aquatic Environment Management**

1. Water and soil chemistry
2. Meteorology, Climatology and Geography
3. Limnology
4. Fishery oceanography
5. Marine Biology
6. Aquatic pollution
7. Aquatic Ecology, biodiversity and disaster management
8. Management of biological productivity in pond water

*P. Prakash*



2. **BFSc. Paper-II**

(a) **Fish Processing Technology**

- 1. Fish in Nutrition
- 2. Freezing technology
- 3. Fishing craft and gear technology
- 4. Fish products and value addition
- 5. Microbiology of fish and fishery products
- 6. Fish canning technology
- 7. Fish by-products and waste utilization
- 8. Packaging technology
- 9. Quality assurance of Fish and Fishery products

(b) **Fisheries Extension, Economics and Statistics**

- 1. Statistical methods
- 2. Fisheries economics
- 3. Fisheries Policy and law
- 4. Fisheries Business Management and Entrepreneurship development
- 5. Project formulation, implementation and evaluation
- 6. Fisheries Cooperative and marketing management
- 7. Fisheries extension education
- 8. Information and Communication technology
- 9. Communication skills and personality development

*P. Pringle*  
 Secretary  
 Arunachal Pradesh  
 Public Service Commission  
 Itanagar