

**RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER**  
**SYLLABUS FOR SCREENING TEST FOR THE POST OF**  
**Fisheries Development Officer, Fisheries Department**

1. Taxonomy of Indian Major Carps (IMC), catfishes, Mahseer, Hilsa and exotic food fishes. Cold water culturable fishes of India.
2. Biology of Indian Major Carps (IMC), Mahseer, common carp, Grass carp, Silver carp and Tilapia.
3. Induced breeding, ovaprim and its analogues. Different types of fish hatcheries. Production of stunted fish seed, hybridization, monosex culture, supermales, cryopreservation of fish gametes.
4. Pre and post stocking management of ponds : air or sun drying of pond, ploughing, Liming, fertilization, bio-filtration, aeration and soil micronutrients, insect control.
5. Pen culture, cage culture, recirculating aquaculture system.
6. Monoculture, Polyculture, composite fish culture, Urban aquaculture : Ornamental fish culture, Aquaponies.
7. Integrated fish culture : Paddy-cum-fish, cattle-cum-fish, Duck-cum-fish, Poultry-cum-fish, Pig-cum-fish.
8. Sewage fed fish culture and depuration of fish.
9. Extensive, semi-intensive and intensive aquacultural systems.
10. Fish stocking ratios and densities for different size-groups of fish seed. Fish carrying capacity of water bodies. Basics of fish population dynamics : Fecundity, recruitment, mortality, fishing effort, exploitable fish population.
11. Natural and supplementary fish feeds, pelleted, floating and sinking feeds, larval feeds and their formulations.
12. Breeding and culture of freshwater prawn, *Macrobrachium rosenbergii*. Rearing of the freshwater bivalve, *Lamellidens spp.* for pearl production.
13. Fish diseases and their control : bacterial, fungal, ecto-parasitic and nutritional.
14. Fisheries extension methods.
15. Preparation of aquacultural, capture fishery and ornamental fish project proposals including budgeting and economics.
16. Salient features of Rajasthan Fisheries Act, 1953 and Fisheries rules, 1958.
17. Fish as food, fish spoilage, rigor mortis and fish preservation.

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Note :- **Pattern of Question Paper**

- 1. Objective type paper**
- 2. Maximum Marks : 100**
- 3. Number of Questions : 100**
- 4. Duration of Paper : Two Hours**
- 5. All questions carry equal marks.**
- 6. There will be Negative Marking.**