

RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR SCREENING TEST FOR THE POST OF ASSISTANT FISHERIES DEVELOPMENT OFFICER (FISHERIES DEPARTMENT)

1. Taxonomy and diagnostic external characters of the freshwater food fishes and shell fishes. *Catla catla*, *Labeo rohita*, *Cirrhinus mrigala*, *Labeo calbasu*, *L. bata*, *Mystus seenghala*, *M. aor*, *Tor khudri*, *Oreochromis mossambicus*, *O. nitoticus*, *Wallago attu*, *Ompok pabda*, *Notopterus notopterus*, *Notopterus chitala*, *Channa marulius*, *C. striatus*, *Mastacembelus armatus*, *Freshwater Prawn*, *Shrimp*, *L.vannamei*.
2. Biology of Indian Major Carps (IMC).
3. Selection and Identification of I.M.C. brooders, Induced breeding, Synthetic hormones.
4. Different type of fish hatcheries and their management.
5. Counting method of spawn, care of spawn, fry and fingerlings and identification of freshwater culturable fishes.
6. Transportation of live fish and fish seed, management, problems and remedies.
7. Soil and water quality management for aquaculture.
8. Different types of farm ponds and their characteristics. Basics of fish farm design and construction.
9. Types of different natural and supplementary feeds, feeding rate and methods.
10. Bacterial, Fungal, Ectoparasitic and Endoparasitic diseases and their treatments.
11. Common ornamental fishes and maintenance of aquaria, their accessories.
12. Biology and culture of freshwater prawn & Shrimp (*Macrobrachium rosenbergii*, *L.vannamei*).
13. Role of Phyto and Zoo plankters in pond ecosystem.
14. Common floating, submerged and emergent aquatic plants of pond ecosystem.
15. Dominant aquatic insects, aquatic weeds, Predatory fishes and their control.

16. Handling of freshwater fishes and different preservation methods for marketing.
17. Common Freshwater fishing Crafts and Gears used in Rajasthan and their material and maintenance.
18. Major Freshwater resources for fish culture in Rajasthan.
19. Salient features of Rajasthan fisheries act 1953 and Rajasthan fisheries rule, 1958.
20. Recent advances in aquaculture: Cage and Pen culture.

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.**
