

Rajasthan Public Service commission, Ajmer

Syllabus for Screening Test for the Post of Assistant Fisheries Development Officer, (Fisheries Department)

1. General characteristics and phylogenetic significance of agnatha (ostracoderms&placoderms)
2. Geographical distribution and general classification of fishes upto sub division.
3. Origin and adaptive radiations of elasmobranchs and teleosts.
4. Integument and skeleton (exoskeleton and endoskeleton) of fishes, structural modifications, functions and theories of origin of fins.
5. Anatomy and physiology of digestion, circulation, respiration and excretion of fishes.
6. Anatomy and Physiology of nervous system and sense organs.
7. Endocrine glands, hormones and reproductive behavior of fishes.
8. Principal fishes of India, biology of Indian major carps, cat fishes, hilsa, sardine, mackerel, sharks, prawns and oysters.
9. Methods of fishing in fresh waters of India, pisciculture and its importance with reference to India, aquaria-setting up, maintenance and their uses.
10. Ecological factors affecting life of fishes, estimation of population density and mortality rates of fishes in fresh waters, fresh water pollution in relation to Indian fishes.
11. Bi-products of fishing industry, fish as a food, fish and man kind.
12. Exotic fishes and their impact on Indian fresh water ecosystems.
13. Air breathing organs, bioluminescence, electric organ, acoustic organ and parental care in fishes.
14. Adaptations of fishes living in Hillstream and deep sea.
15. Symptoms, etiology and treatment of various fish diseases.
16. Fish migration-its types, causes and significance.

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Pattern of Question Papers:

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

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