



Public Service Commission, West Bengal
161A, S. P. Mukherjee Road, Kolkata-700026

**Scheme of Screening Test for Recruitment to the Post of Fishery Field Assistant (FFA)
in The Directorate of Fisheries, West Bengal under the Department of Fisheries,
Aquaculture, Aquatic Resources & Fishing Harbours, Govt. Of West Bengal Vide Advt. No.
10/2023.**

Scheme

- 1) Type of examination : MCQ type question
- 2) No. of Questions : 100 questions. [30 questions on English & General Awareness and 70 questions as per syllabus – each question carrying equal marks.]
- 3) Full Marks : 100 [English Grammar (Madhyamik Standard) – 20 Marks, General Awareness – 10 Marks & Industrial Fish & Fisheries (Graduation Standard) – 70 Marks.
- 4) Duration : 1 Hour and 30 Minutes.

[There will be negative marks as per norms @ $\frac{1}{4}$ for each wrong answer.]

By order of the Commission



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Approved Syllabus of the Screening Test for recruitment to the post of Fishery Field Assistant (FFA) in the Department of Fisheries, Aquaculture, Aquatic Resources & Fishing Harbours, Govt. of W.B.

<u>Broad Topic</u>	<u>Details</u>	<u>Indicative Distribution of Marks</u>
Capture Fisheries	<ul style="list-style-type: none">• The inland capture fishery resources of India.• Estuarine fisheries – resources and fisheries.• Beel fisheries.• Marine fishery Resources of India, Offshore and inshore fisheries.• Different types of crafts and gears.• Deep sea fishing, EEZ, PFZ• Fish landing harbours.	8
Principles of Aquaculture, Fish Genetics and Seed Production	<ul style="list-style-type: none">• Different systems of aquaculture – monoculture, polyculture, integrated fish farming, extensive, semi – intensive and intensive culture.• Cold water aquaculture and sewage fed fish culture.• Exotic fishes and their role in aquaculture.• Air breathing fish culture.• Fresh water prawn culture.• Biofloc/Cage Culture/Penculture/RAS• Fish breeding.• Induced breeding of carps.• Hatchery construction, design, operation and seed production.• Maturation, sex determination, inheritance, androgenesis, gynogenesis, polyploidy, production of monosex fish.	12
Fish Pathology and Fishery Microbiology	<ul style="list-style-type: none">• Infectious diseases of fish/shrimp: Viral (VHS), Bacterial, Fungal Protozoan Metazoan.• Symptom of disease, prophylaxis and therapy.	10
Ornamental Fishery	<ul style="list-style-type: none">• Taxonomy and biology of ornamental fishes.• Design and construction of aquarium, frameless tanks.• Water quality management and maintenance of aquarium.• Use of aerators and filters, heaters and thermometers etc.• Different kinds of feeds. Culture of fish food organisms.• Commercial production of gold fish and life bearer.	5
Post harvest Technology	<ul style="list-style-type: none">• Importance of fish preservation. Traditional and advanced methods of fish preservation.• Quality assurance and export of fisheries products.• Fish processing and fisheries by product.	5
Fishery Economics and Fishery Extension, Marketing and Entrepreneurship development	<ul style="list-style-type: none">• Role of fisheries in Indian Economy.• Cooperatives and their importance in fish production and marketing.• Planning and Financing schemes for fisheries. Export markets.• Role of extension in community development.• Integrated rural development strategies.• Programme for weaker section of the community.• Law of demand and supply.• Need, scope, characteristics and types of entrepreneurship.	10
Freshwater Aquaculture	<ul style="list-style-type: none">• Pond preparation–pre stocking and post stocking management (predators, weeds, algal blooms and their control, liming and fertilization).• Criteria for selection of species for culture, seed production and stocking.• Soil and water quality management.• Supplementary feed and feeding, nutritional requirement and formulation of artificial diet, feeding technique and water quality management, natural food and their importance in aquaculture.	10
Brackish Water Aquaculture	<ul style="list-style-type: none">• Characteristics of brackish water fish and its resources in India, brackish water aquaculture.• Culture of shrimps.• Existing practice in bheris – milk fish, pearl spot, gray mullet.• Best management practice.• Environmental impact analysis of brackish water aquaculture.	10

N.B.: a) The syllabus is indicative only. Candidates should be prepared to answer any question from essential Qualification/Degree mentioned in the advertisement for the relevant post.

b) Distribution of marks, shown above, is indicative only. Nos. of questions on the broad topics as well as marks may vary as each question carries 1 mark.

This is in partial modification of the Syllabus for the Screening Test (S.T.) for recruitment to the post of Fishery Field Assistant (FFA) uploaded & published on the Commission's website on 22.04.2024

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