



SCHEME OF EXAMINATION FOR
VILLAGE FISHERIES ASSISTANTS SERVICES
WRITTEN EXAMINATION (OBJECTIVE TYPE)

I. Pattern of Written Examination:

Subject	No. of Objective Type Questions	Duration Minutes	Maximum Marks
Part A. General Studies	50	50 Min	50
Part B. Fisheries	100	100 Min	100
TOTAL	150	150 Min	150 Marks

N.B: NEGATIVE MARKS: As per G.O. Ms. No.235 Finance (HR-I, Plg& Policy) Dept.,Dt.06/12/2016, for each wrong answer will be penalized with 1/4th of the marks prescribed for the question.

II. Syllabus for Written Examination:

Part A: General Studies:

1. Events of national and international importance.
2. Current affairs- international, national and regional.
3. General Science and its applications to the day to day life Contemporary developments in
4. Science & Technology and information Technology.
5. Social- economic and political history of modern India with emphasis on Andhra
6. Pradesh.
7. Indian polity and governance: constitutional issues, public policy, reforms and
8. e-governance initiatives with specific reference to Andhra Pradesh.
9. Economic development in India since independence with emphasis on
10. Andhra Pradesh.
11. Physical geography of Indian sub-continent and Andhra Pradesh.
12. Disaster management: vulnerability profile, prevention and mitigation strategies,
13. Application of Remote Sensing and GIS in the assessment of Disaster.
14. Sustainable Development and Environmental Protection
15. Bifurcation of Andhra Pradesh and its Administrative, Economic, Social, Cultural, Political, and Legal implications/problems.

Part B: Fisheries**I. General Fisheries:**

1. Origin of Fishes; Principles of Taxonomy; Classification of Fishes; Catadromous, Anadromous Fish migration
2. Commercially important species of Marine, Freshwater & Brackish water fishes of India & Andhra Pradesh
3. General Morphology, Anatomy, Physiology of Fishes, Shrimp, Prawn, Crab
4. Nutritive Value of Fish & Prawn
5. Status on Aquatic Production & Productivity of India & AP
6. Status of exports of aquatic products from India & AP
7. Various National Level institutions & their role in development of Fisheries in India & AP
8. Fish Population Dynamics & Assessment
9. Impact of Elnino & Climatic change on fisheries in India & AP in particular and strategies to combat such situations
10. Carnivorous Fishes & Toxic aquatic species
11. Assessment of Quality of Fish.

II. Inland Fisheries

1. Inland Fisheries Resources of Andhra Pradesh
2. Types of water bodies exists in freshwater ecosystem
3. Ecology of Pond, tanks, lakes, Reservoir, River
4. Classification of Reservoirs & their Management;
5. Banned fish species and mechanism of disposal of stocks
6. Induced Breeding Techniques
7. Inland Fish Seed Farms & management
8. Cage culture in Reservoirs - pros & cons
9. Ornamental Fishes- Breeding & rearing techniques

III. Marine Fisheries:

1. Marine Resources of Andhra Pradesh
2. Tides, Currents, waves, monsoons, continental shelf, upwelling & sinking
3. Important marine fishery; coastal, offshore & deep sea species
4. Importance of by-catch Reduction Devices Turtle Excluder Device
5. Conservation of marine Turtles & mammals
6. Sea safety & Navigational equipment
7. Role of INCOIS- importance of Remote Sensing- PFZs
8. Registration of marine Fishing Craft
9. Fish Landing Centres, Fishing Harbours Management
10. Important Deep sea fishes of India
11. Marine Cage Culture
12. Marine Fishing ban period
13. Coastal Security- MFR Act, MS Act.
14. Colour Code for Marine Fishing Boats

IV. Aquaculture:

1. Types of Aquaculture systems
2. Pond construction
3. Water & Soil management
4. Indian Major Carps Breeding & hatchery management
5. Nursery Management
6. Seed Rearing; Production management of Advanced Fingerling & Yearlings
7. Breeding & Hatchery management of Freshwater Prawn, *M. rosenbergii*
8. Breeding & Hatchery management of *L. vannamei*
9. Preliminary Concepts of Specific Pathogen Free brood stock, Nucleus Breeding Centre, Brood Stock Multiplication Centre, Aquatic Quarantine Facility
10. Integrated Fish farming with Paddy- Horticulture
11. Types of Feed, Feeding methods, Nutritional requirement of Fish; quantity of feed
12. Registration & Regularization of freshwater aquaculture ponds for culturing Indian Major Carps - DLC- Guidelines- Penalty & demolition on violations
13. CAA guidelines for registration of aqua farms and Hatcheries
14. Guidelines for culture of Nile Tilapia in ponds
15. Production & Productivity enhancement mechanisms
16. Common Diseases of aquatic animals & management
17. Concept of Biosecurity and HACCP
18. Innovative Technologies: Biofloc; RAS; Pond Automation; Aquaponics
19. Best Management Practices for achieving sustainable production

V. Fishing Craft and Gear:

1. Types of Crafts & Gear used in capture fishery - marine, inland sectors
2. Different types of gear material
3. Mesh Size Regulation

VI. Fisheries Management:

1. Concept of Code of Conduct for Responsible Fishing (CCRF)
2. Pollution & control measures
3. Marketing- Role of fisherwomen- Hygiene handling & maintenance of fish markets
4. Conservatory measures in marine & reservoir fisheries
5. Role of Gram Panchayats in development of fishery wealth
6. Lively hood enhancement & employment opportunities in fisheries sector
7. Various value added & health products
8. Usage of Banned Antibiotics in aquaculture and its implications on exports
9. Concept of Aqua zonation & its benefits in management
10. Role of Fisheries Co-operatives in enhancing the fish production & productivity in public water bodies
11. Natural calamities- Floods, Cyclones, Tsunamis- Role of communities, local bodies in prepared ness
12. Role of Gram Panchayats in Maintenance of Fish Markets.