



F.No. A-12024/2/2023-Estt-Fisheries-FISH\_AN/E-22640/  
□□□□□□ □□□ □□□□□□□ □□□□□□□  
**ANDAMAN AND NICOBAR ADMINISTRATION**  
□□□□□□ □□□□□□□□  
**DIRECTORATE OF FISHERIES**  
\*\*\*

E-mail :-dirfish.and@nic.in  
Port Blair, dated the **May**, 2023.

**VACANCY NOTICE**

**RECRUITMENT TO GROUP-‘B(NON-GAZETTED)’ AND GROUP-‘C’ POSTS TO BE FILLED IN FISHERIES DEPARTMENTS OF A&N ADMINISTRATION BY CONDUCTING OPEN, COMPETITIVE RECRUITMENT EXAMINATION.**

1. The Department of Fisheries, Andaman and Nicobar Administration with the assistance of Dr.B.R.Ambedkar Institute of Technology, Port Blair has decided to conduct “Open, Competitive Recruitment Examination for filling-up of Group – ‘B(Non-Gazetted)’ Post of **Assistant Fisheries Development Officer** and Group-‘C’ post of **Fisheries Inspector** lying vacant in the Department of Fisheries under this Administration as per the details given below, for which, ONLINE APPLICATIONS are invited from eligible candidates.

**2. Details of Vacancies:-**

S. No	Name of the Post	Group	Level	No. of Vacancies	Vertical Reservation				Horizontal Reservation		
					UR	ST	OBC	EWS	PwD	MSP	ESM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	Assistant Fisheries Development Officer	B (Non-Gazetted)	L-6	02	01		01				
2	Fisheries Inspector	C	L-4	03	02		01				

Number of vacancies notified above are subject to variation.

The candidate may apply for one or more post(s) in order of his/her preferences for the posts, if he/she stands eligible in terms of essential qualifications for the post/posts as prescribed under Educational Qualification below:-.

N.B.

1. Number of vacancies shown above are subject to variation.
2. Reservation for ST candidates as applicable to those ST as specified in the constitutional order No. 1959 of A & N Islands (Scheduled Tribes).

3. Reservation for OBC applicable to those OBCs as specified in the Administration circular No. 8-3/2003-TW dated 30<sup>th</sup> March, 2006.
4. Reservation for disabled persons (Persons with disability) EWS, Ex-Servicemen, Meritorious Sports Persons etc. shall be applicable as per the guidelines/instruction issued by the Govt./ A & N Administration from time to time.

### 3. ELIGIBILITY CONDITION:

- (i) All candidates shall be required to apply Online for the post(s) whether they are registered with the Employment Exchange or otherwise
- (ii) The Departmental Candidates must also apply online. 'No objection Certificate's issued by the 'Head of the Department' must be produced at the time of verification of original certificates/documents.
- (iii) The candidates should apply for the above posts separately in order of his preferences.
- (iv) The written exam will be held at centre(s) at Port Blair alone.
- (v) Applicant must be an Indian Citizen.

### 4. AGE LIMIT :-

- I) Age limit for the post of **Assistant Fisheries Development Officer** is 30 years relaxable to various reserved and other categories in respect of Group-'B' post as detailed below:-

Sl. No.	Category	Age-relaxation permissible beyond the upper age limit	Max age of the candidate
01	ST	5 years	35 yrs
02	OBC	3 years	33 yrs
03	PwD (Unreserved)	10 years	40 yrs
04	PwD (OBC)	13 years	43 yrs
05	PwD (ST)	15 years	45 yrs
06	Ex-Servicemen (ESM)	03 years after deduction of the military service rendered from the actual age as on closing date of receipt of online application.	
10	Central Government Civilian Employees: Who have rendered not less than 3 years regular and continuous service as on closing date for receipt of online applications.	Up to 35 years of age.	
11	Age relaxation to DRM and contract employees including SSCT.	Not applicable since specific technical qualification is required for the above posts. However those who work against any post which also has the qualification prescribed for the above advertised post the instructions/ orders issued by the Andaman & Nicobar Administration, vide Circular No.45/1998-PW dated 19.11.2011, will be considered upto 40 years of age.	
12	One time age relaxation granted by A&N Administration over and above the relaxation already in force.	A one-time age relaxation of 02 years is applicable in accordance with A&N Admin's No.1-3/2022-R&E Cell Vol-VII dated 20.10.2022.	

II) Age limit for the post of **Fisheries Inspector** is as under:-

- (i) For Males -18 to 33 years
- (ii) For Females -18 to 38 years
- (iii)

**Note:-** A Candidate for this examination must have attained the age of 18 years and must not have attained the age over and above 33/38 years in respect of male/female candidates respectively as on the closing date of receipt of on-line application.

Besides the above, age relaxation in respect of reserved categories of aspirants permissible beyond the upper age limit to Group-‘C’ posts of Fisheries Inspector are as detailed below:

Sl. No.	Category	Age-relaxation permissible beyond the upper age limit	Male	Female
01	ST	5 years	38 yrs	43 yrs
02	OBC	3 years	36 yrs	41 yrs
03	PwD (Unreserved)	10 years	43 yrs	48 yrs
04	PwD (OBC)	13 years	46 yrs	51 yrs
05	PwD (ST)	15 years	48 yrs	53 yrs
06	Ex-Servicemen (ESM)	03 years after deduction of the military service rendered from the actual age as on closing date of receipt of online application.		
07	Central Government Civilian Employees: Who have rendered not less than 3 years regular and continuous service as on closing date for receipt of online applications.	Up to 40 years of age.		
08	Age relaxation to DRM and contract employees including SSCT.	Not applicable since specific technical qualification is required for the above posts. However those who work against any post which also has the same qualification prescribed for the above advertised post the instructions/ orders issued by the Andaman & Nicobar Administration, vide Circular No.45/1998-PW dated 19.11.2011 will be considered upto 40 years of age.		
09	One time age relaxation granted by A&N Administration over and above the relaxation already in force.	A one-time age relaxation of 02 years is applicable in accordance with A&N Admins Order No.2285 dated 01.09.2022.		

5. **Educational & Other Qualifications** prescribed for the post (s) (as on 31/05/2023):-

Sl.No.	Name of the Post	Educational & other Essential Qualification	Desirable Qualification.
(1)	(2)	(3)	(4)
(1)	Assistant Fisheries Development Officer	1) Masters degree in Fisheries Science from a recognized university (OR) M.Sc. In Zoology/ Marine Biology/ with specialization in Fisheries from a recognized university  2) One Years experience in the field of Inland and Marine Fisheries Development.	Knowledge in Computers
(2)	Fisheries Inspector	Bachelor's Degree in Fisheries Science/ Zoology from any recognized university.	Knowledge in Computer operations

6. Candidates who wish to be considered against the vacancies reserved or seek age-relaxation must produce their original certificates issued by the competent authority and to submit a copy of the original certificate duly self-Attested whenever sought by the Fisheries Department, otherwise, their claims for ST/ OBC/ EWS/ PwD/ ESM status will not be entertained and their candidature/applications shall be considered under General (UR) category. Certificate for the status of Creamy Layer issued between 31/05/2020 to 31/05/2023 only will be accepted.

**NOTE :** Candidates are cautioned that they shall be permanently debarred from the examination conducted by the A & N Administration in case, they fraudulently claim ST/ OBC/ EWS/ ESM/ PwD status.

7. Visually handicapped (VH) candidates with visual disabilities of forty percent (40%) and above and candidates suffering from Cerebral Palsy can avail the assistance of a SCRIBE in the Written Examination subject to such requests being made in the application form beforehand. Question Papers and Answer Sheets will not be provided in BRAILLE. No attendant will be allowed with Visually Handicapped (VH)/ Cerebral Palsy candidates inside the examination premises.

Note: Persons with Visual disability of less than forty percent (40%) will not be considered as visually handicapped persons. One eyed candidates and partially blind candidates who are able to read the normal Question Paper set for all the candidates with or without magnifying glass and who wish to write/indicate the answer with the help of Magnifying Glass will be allowed to use the disability will not be considered under the VH/HH/OH/MI category as the case may be:-

8. **FEE PAYABLE:** - A Fee of Rs.25/- (Rupees Twenty Five only) is payable through Online only. The details of Bank account are as under:-

Bank :- State Bank of India,

Branch:- Dollygunj,

Account No.41881546799

IFSC :- SBIN0017178.

UPI ID:- 41881546799@SBI or BRAMBEDKAR4188@SBI

9. **CENTRE OF THE EXAMINATION:-**

The Examination will be held (in online mode) at the designated centers located at Port Blair. There will be only one Written Examination for selection to the above post.

The date of Written Examination will be published as and when obtained from the concerned authority.

10. **SUBJECT OF WRITTEN EXAMINATION**, time allowed, and maximum marks for each subject will be as follows for both the above posts:-

Sl. No	Subject	No. of Questions (each question shall carry onemark)	Maximum Marks	Total Duration/ Timing for all candidates except visually handicapped /cerebral palsy candidates (Morning and afternoon Session)	Total Duration/ Timing for Visually Handicapped/Cerebral Palsy candidates only
I	English	20	20	2 1/2 Hours 10.00 AM to 12.30 Noon (No entry after 9.30 AM)  And 2.00 PM to 4.30 PM (No entry after 1.30 PM)	Afternoon Session only (03 Hours) 2.00 PM to 5.00 PM (No entry after 1.30 PM)
II.	General Awareness	20	20		
III	Subject Knowledge	80	80		
		120	120		

**NOTE-I:-** (i) There will be negative marking of 0.25 marks for each wrong answer.

(ii) Candidates are, therefore, advised to keep this in mind while answering the questions.

- 11) **TIMINGS:-** In order to accommodate large no of candidates, the written examination at various centers shall be conducted in two shifts as under:-

Sl. No.	Shift	Total Duration/ Timing for all candidates except visually handicapped /cerebralpalsy candidates	Total Duration/ Timing for Visually Handicapped/Cerebral Palsycandidates only
1.	Shift - I	10.00 AM to 12.30 Noon	-
2.	Shift - II	02.00 PM to 04.30 PM	02.00 PM to 5.00 PM

**NOTE:** Each candidate may be required to appear for written examination either in Shift – I (Morning) or Shift – II (Afternoon) as per allotment by the Directorate of Fisheries.

**NB:** The Director of Fisheries, A&N Administration reserves the right to restrict entry to the examination venue till 9.30 am in Shift – I of the morning shift and till 1.30 pm in the afternoon Shift –II.

12) There shall be a single paper for all the three subjects, having: “Objective Multiple- Choice- type Questions”. The Authorities Shall however, have full discretion to fix the minimum qualifying marks in one and all the subjects. The question paper in respect of subjects at Sl No.(i), (ii) & (iii) above will be set in English languages only.

13) **INDICATIVE SYLLABUS:-** FOR WRITTEN EXAMINATION for the post of Assistant Fisheries Development Officer will be ‘Post Graduate Level’ and for Fisheries Inspector will be ‘Graduate Level’.

**(i) General Awareness(20 Marks):** Questions will be designed to test the ability of the candidate’s general awareness of the environment around him and its application to the society. Questions will also be designed to test knowledge of current affairs, observations/experience and elementary knowledge of computers. The test will also include questions relating to India and other countries especially, pertaining to History, Culture, Geography, Economics, Science, General Politics and ScientificResearch etc.

**(ii) English Language(20 Marks):** Questions in this test will be set to assess the knowledge of English Language, its vocabulary, grammar, sentence structure, synonyms, antonyms etc.

**(iii) Subject Paper (80 Marks) detailed at Annexure-A attached:-**

- Non-Chordata (Protozoa, Coelenterata, Helminthes, Annelida, Arthropoda & Mollusca)
- Chordata (Prochordata, Chordata, Pisces, Amphibia, Reptiles, Birds, & Mammals)
- Fishery Resources and General Fish Biology.
- Mari Culture, Seaweed and Aquaculture.

- e) Fish Craft, Gear, Navigation and Seamanship.
- f) Fish in Nutrition, Fish products & By Products and value addition.
- g) Fish Harvest and Post-Harvest (Preservation and processing)
- h) Fish and Shrimp Diseases.
- i) Fisheries Marketing, Economics & Extension.
- j) Navigation and Seamanship.
- k) Aquatic Environment Management.
- l) Fisheries Statistics.
- m) Fisheries Administration and Legislation.

It may be noted that apart from the topics detailed above questions from other topics prescribed for the educational qualification of the pay may also appear in the question Paper. There is no undertaking that all the topics above may be covered in the question paper.

**NOTE:** For Visually Handicapped (VH) candidates of 40% and above visual disability and opting for SCRIBE, there will be no component of Map/Graphs/Diagrams / Statistical Data in the General Intelligence & Reasoning/ General Awareness Paper.

#### **14. VERIFICATION OF DOCUMENTS:-**

All the successful candidates short listed after the written test should get their original Certificates/Testimonials duly verified as are mandatory and submit another self attested copy of all those mandatory certificates/testimonials in person alongwith the printed copy of online Application to the authorized officers/officials at the prescribed venue on the schedule date & time, failing which, his/her candidature shall be struck off from the relevant panel for all purposes and no further request/correspondence shall be entertained.

#### **15. GENERAL INSTRUCTIONS TO BE COMPLIED WITH BY THE CANDIDATES IN THE WRITTEN EXAMINATION:-**

- (i) Candidates must write the papers/indicate the answers in their own hand (Except for VH and Cerebral palsy candidate wherein, SCRIBE may be permitted to assist.
- (ii) In the question papers, wherever necessary, the Metric systems of weights and measures only will be used.
- (iii) Candidates are not permitted to use calculators and other electronic gadgets except as specified in the Notice. They should not, therefore, bring the same inside the Examination Premises/ Venue.
- (iv) If any candidate is found to possess mobile phones or any other means of wireless communication in the working (Switch on) or switched off mode, his/her candidature shall be cancelled forthwith.

16. **MODE OF SELECTION :-**

Candidates will be short-listed on the basis of their performance in the Written Examination. The cut-offs in the Written Examination may be different for vacancies against each post and the same shall be fixed at the sole discretion of the Fisheries Department. Candidates for each vacancy will be finally selected based on their performance in the Written Examination.

Provided that ST, OBC, MSP, EWS, ESM and PwD candidates, who are selected on their own merit without relaxed standards, will not be adjusted against the reserved share of the vacancies. Such MSP, ESM and PwD candidates will be accommodated against the general/unreserved vacancies as per their position in the overall Merit List.

The reserved vacancies will be filled up separately from amongst the eligible ST, OBC, who are domicile of A & N Islands and who are lower in merit than the last General candidate (UR) in merit list of un-reserved category but otherwise found suitable for appointment even by relaxed standard.

Physically Handicapped (OH/VH) category candidate who qualifies on the basis of relaxed standards viz. age limit, experience or qualifications, permitted number of chances in written examination, extended zone of consideration, etc. is to be counted against reserved vacancies and not against general vacancies subject to fitness of such candidate for selection. Such candidates may also be recommended at relaxed standards to the extent of the number of vacancies reserved for them, to make up for the deficiency in the reserved quota, irrespective of their rank in the order of merit. In so far as cases of Ex-Servicemen are concerned, deduction of the military service rendered from the age of Ex-Servicemen of A & N Islands is permissible against the reserved or unreserved posts and such exemption cannot be termed as relaxed standards with regard to age. Refer <http://disabilityaffairs.gov.in/content/Group-C.pdf> regarding the posts identified suitable for PwD person.

Success at the examination confers no right of appointment whatsoever unless the A & N Administration is satisfied after such enquiry as may be considered necessary that the candidate is suitable in all respects of appointment to the service/post and the decision in this regard shall be final & binding.

17. **RESOLUTION OF THE TIE CASES:-**

In cases where more than one candidates secure the equal aggregate marks, tie will be resolved by applying the following methods one after another:-

- (i) Date of birth i.e. the candidate older in age gets preference.
- (ii) By referring to the alphabetical order of the names taking first name into consideration.



## **18. ADMISSION TO THE EXAMINATION:**

- a) All candidates who apply in response to this advertisement on or before the CLOSING DATE & TIME FOR ONLINE APPLICATION will be assigned Roll numbers. The Admit Cards will be made available on the website of A & N Administration i.e. <https://andaman.gov.in>. around 02 weeks before the Written Examination. In case, a candidate does not find his/her name in the above uploaded list, candidate must immediately contact the Administrative Officer (Fisheries), Directorate of Fisheries, Port Blair at e-mail ID:- [dirfish.and@nic.in](mailto:dirfish.and@nic.in) with proof of having submitted his/her application online. Failure to do so shall deprive him/her of any claim for consideration subsequently.
- b) The candidates must carry at least one photo bearing identity proof such as Driving License, Aadhaar Card, Voter Card, College/University ID Card, Income Tax PAN in original and Admit Card downloaded from the website, while attending the examination, failing which, they shall not be allowed to appear for the examination.
- c) The photographs used by the candidates must be a recent, relaxed face, and the picture should be in coloured, against a light-coloured, preferably white-background. If flash is used then please ensure that there is no red-eye and, in case of glasses, your eyes should be visible. The front of the face should not be covered less than 80 % of the entire photo. Photograph should be in JPEG format and its size should be between 10 Kb to 50 Kb with ideal resolution of 100 x 200 (pixels).

## **19. Action against candidates found guilty of misconduct:**

While filling the application form, the candidates are cautioned that they should not furnish any particular that is false or suppress any material information. Candidates are also cautioned that they should in no case, attempt to alter or otherwise tamper with any entry in a document or the attested certified copy submitted by them, nor should they submit a tampered/fabricated document. If there is any inaccuracy or any discrepancy, in filling OMR Sheet, OMR Sheet will not be evaluated.

Without prejudice to criminal action/ debarment from A & N Administration's examination wherever necessary, candidature will be summarily cancelled at any stage for a period of maximum 03 years of the recruitment in respect of candidates found having indulged in any of the following malpractices:-

- 1) In possession of MOBILE PHONE & ACCESSORIES AND OTHER ELECTRONIC GADGETS WITHIN THE PREMISES OF THE EXAMINATION CENTRES, WHETHER IN USE OR IN SWITCHED OFF MODE AND IN PERSON OR OTHERWISE.
- 2) Involved in various malpractices.

- 3) Using unfair means in the examination hall like copying, cheating etc.
- 4) Obtaining support for his / her candidature by any means.
- 5) Impersonate/ procuring impersonation by any person.
- 6) Submitting fabricated documents or documents which have been tampered with.
- 7) Making statements which are incorrect or false or suppressing material information.
- 8) Resorting to any other irregular or improper means in connection with his/her candidature for the examination.
- 9) Misbehaving in any other manner in the examination hall with the Supervisor, Invigilator or Administration's representatives.
- 10) Taking away the Answer Sheet with him/her from the examination hall, or passing it on to unauthorized persons during the conduct of the examination.
- 11) Intimidating or causing bodily harm to the staff employed by the Administration for the conduct of examination.
- 12) To be ineligible for the Examination by not fulfilling the eligibility conditions mentioned in the Notice.
- 13) Candidature can also be cancelled at any stage of the recruitment on any other ground which, the A & N Administration considers to be sufficient cause for cancellation of candidature.

## **20. A&N ADMINISTRATION'S DECISION SHALL BE FINAL AND BINDING**

The decision of the A & N Administration in all matters relating to eligibility, acceptance or rejection of the applications, penalty for false information, mode of selection, conduct of examination(s) allotment of examination centers, selection and allotment of posts/organizations to selected candidates shall be final and binding on the candidates and no enquiry/correspondence shall be entertained in this regard.

## **21. COURTS JURISDICTION**

Any dispute in regard to this recruitment shall be subject to Courts/tribunals having jurisdiction over the A & N Administration only.

- 22.** The results of the Written Competitive Examination/final result of the recruitment examination will be made available on the Administration's Recruitment Portal <https://erecruitment.andaman.gov.in>

## **23. IMPORTANT INSTRUCTIONS FOR THE CANDIDATES**

- a. The Fisheries Department under A & N Administration has advertised the above recruitment to the Group-B(NG) post of Assistant Fisheries Development Officer and Group-'C' post of Fisheries Inspector and the candidates may visit/access the A&N Official website <https://andaman.gov.in> for further information.

- b. The Fisheries Department will not undertake detailed scrutiny of applications for the eligibility and other aspects before the written examination, and thus the candidature is accepted only provisionally. The candidates are advised to go through the requirements of educational qualification, age etc. and satisfy themselves that they are eligible before applying. When scrutiny is undertaken, at any stage, if any claim made in the application is not found substantiated, the candidature shall be cancelled and the Administration's decision shall be final and binding.
- c. Candidates are advised to go through the detailed instructions contained in this notice which are available on the websites of A&N Administration i.e. <https://erecruitment.andaman.gov.in> may read carefully before applying.
- d. Candidates seeking reservation benefits available for ST/ OBC/ EWS/ PwD/ ExM/ MSP etc. must ensure that they are entitled to such reservation as per eligibility and limits prescribed by the Govt./A & N Administration from time to time. They should also be in possession of the required certificates in the prescribed format in support of their claim at the time of application.
- e. Candidates with visual disability of 40% (Forty Percent) and more only would be considered as VISUALLY HANDICAPPED (VH) and entitled to reservation for VH.
- f. Central Government Servant/Civilian employees, Departmental Candidates of the A & N Administration claiming age relaxation should be in possession of a certificate from their office in respect of length of continuous service which should be for not less than three years in the immediate period preceding the closing date for receipt of online application. They should continue to have the status of Central Government civilian employees/servants till the time of appointment, in the event of their selection.
- g. The Candidates must write their Name, Date Of Birth, Father's Name and Mother's Name strictly as given in the Matriculation Certificate Otherwise their candidature will summarily be cancelled at the time of document verification or as and when comes into the notice of the Andaman and Nicobar Administration.
- h. The candidates seeking relaxation of Age in-terms of Administration's circular bearing No. 45/96-PW dated 06.06.2001 and 45/1998-PW dated 19.09.2011, must possess the required certificate issued by the Competent Authority.

## **24. SELECTION OF CANDIDATES:-**

- (A) Final Selection for appointment to the post(s) notified herein, will be made on the basis of total marks secured in the written Examination and the merit list prepared accordingly.

## **25. How to apply:-**

- A. (i). The candidate should register their full particulars of the Application through online at <https://erecruitment.andaman.gov.in>. The online application will be accepted from 04/05/2023 (from 11.00 AM) to 03/06/2023 (upto 12 midnight). The candidates should provide all the mandatory details in the online portal failing which, the application will not be accepted by the online website. Photograph to be uploaded should be of 8 bit JPEG format and its size should be between 10 Kb to

50 Kb with resolution of 100x200 (pixels). It is also advised to enable JavaScript in the browser such as Internet explorer, Firefox, Google chrome etc. to successfully upload your online application. The website will also allow the applicant to take print out forthwith of the submitted application to facilitate candidate. Those, who may fail to take print out immediately after submitting their application can download the filled in forms later also.

(ii) All the candidates who have duly registered his/her name in the local Employment Exchange as a un-employed must enter his/her registration number at the appropriate box of the on application while filling online.

**B. Copies of documents with the downloaded Application to be submitted at the time of documents verification after the written examination:**

- a. One copy of recent Passport size photograph.
- b. Self Attested copies of certificates in respect of :-
  - i. Essential Qualification Certificate of the respective field and higher qualification if any issued by the competent authority in respect of the post (category of posts) applied for. (Provisional certificate etc. shall not be entertained).
  - ii. X<sup>th</sup> Pass Certificate/Marksheet issued by the CBSE or any other recognized Board of School Education indicating the date of birth. (Provisional certificate etc. will not be entertained)
  - iii. OBC/ ST Certificate issued by any Revenue Authority Competent within the jurisdiction of A&N Administration in respect of such reserved Category.
  - iv. For Meritorious Sports persons for such category of candidate, Certificate issued by the Competent Authority (Sports Authority of India or A & N Sports Council).
  - v. Employment Registration Certificate/Card issued by the Competent Authority indicating registration number.

**26. Closing Date for Online Application:- 03/06/2023 till 12 Midnight.**

**27. ADMISSION TO THE EXAMINATION: -**

- (a) Helpdesk:- Candidate may contact the EDP Cell of the Directorate of Fisheries through email **dirfish.and@nic.in** to clarify/resolve any problem related to registration of online application. The candidate can also seek clarification on telephone (Telephone No. 03192 232770) between 10.00 AM to 5.00 PM on all working days i.e. Monday to Friday.
- (b) Before filling his/her online application, the candidate must carefully read the eligibility conditions for the examination and satisfy himself/herself that he/she fulfills all eligibility conditions and should upload all requisite documents to avoid rejection of his/her candidature.
- (c) Admit Card for the Written Examination indicating the Schedule Date, Time Table, Venue/ Centre of the Examination will be made available on the website which is to be DOWNLOADED / PRINTED OUT by all the

candidates through Internet at <https://erecruitment.andaman.gov.in> which the candidates themselves should generate (download) in hard form and the A & N Administration shall not be responsible for non-receipt/delay in obtaining the same by the candidate.

**28. Interpretation of Contents:-**

Note:- In case of any discrepancy arise in contents of the Vacancy Notice, the interpretation of the 'Secretary(Fisheries), A&N Administration' in this regard shall be final & binding.

**Administrative Officer(Fisheries)**

## **Annexure-A**

### ***Detailed syllabus for the recruitment to the post of Assistant Fisheries Development Officer and Fisheries Inspector***

#### **SUBJECT PAPER**

**(Total Marks - 80)**

##### **1. Non-Chordata:**

General organisation - Classification with diagnostic features upto classes. Evolutionary relationship among taxa, symmetry.

**Protozoa:** Structure, reproduction and life history of Amoeba, Paramecium, Trypanosoma, Plasmodium, Monocystis, Leishmania - locomotion, nutrition, economic importance. Porifera:

Sponges canal system, skeleton, reproduction and economic importance.

**Coelenterata:** Diploblastic organization - life history of Obelia and Aurelia, Metagenesis - Polymorphism in Hydrozoa. Corals and Coral formation - relationships of Cnidaria and Acnidaria.

**Helminthes:** Structure and life history of Planaria, Fasciola, Teania, Ascaris and Wuchereria - parasitic adaptations - Helminthes in relation to man.

**Annelida:** Nereis, earthworm and leech - Coelom and metamerism - modes of life in polychaetes. Onychophora: Structure, affinities and distribution of Peripatus.

**Arthropoda:** Prawn, Scorpion and Cockroach - Larval forms and parasitism in Crustacea - Mouth parts, vision, respiration and excretion. Metamorphosis and social life in insects.

**Mollusca:** Freshwater mussel, pila, sepia. Echinodermata: General organisation - Water vascular system. Larval forms and affinities.

##### **2. Chordata**

**Prochordata:** Amphioxus, Balanoglossus - Ascidian retrogressive Metamorphosis, neoteny and affinities.

**Chordata:** General Organisation - Characters, Outline, classification upto class level.

**Pisces:** Locomotion, migration, respiration, Parental care, economic importance; structure and affinities of dipnoi.

**Amphibia:** Origin of amphibians - Respiration, Parental care - South Indian amphibians.

**Reptiles:** Origin - Conquest of land - adaptations to live on land, adaptive radiation - temporal Vacuities - identification of poisonous and non-poisonous snakes - poison apparatus - South Indian snakes.

**Birds:** Origin - flight adaptations - mechanism of flight - double respiration - migration - Flightless birds.

**Mammals:** Dentition, skin derivatives - distribution - adaptive radiation. Protothria, Metatheria, eutheria and their Phylogenetic relationships.

### 3. Fishery Resources and General Fish Biology:

Capture fishery resource of India - Major Riverine fisheries of India - Lake Fisheries Reservoir Fisheries - Cold Water Fisheries - Pollution in Inland Waters.

Principal Marine Fisheries of Indian Coasts-Crustacean fishery resources-Shrimps, lobsters-Molluscan resources-Gastropods, Bivalves- Sea weed Resources - Maximum Sustainable Yield-Distribution of living organisms in the Sea.

Classification of fishes - Morphometric and Meristic Characters - Length weight Relationship- Food and Feeding Habits - Reproductive Biology- Fish Physiology - Developmental Biology of Fin Fish, Shell fish.

### 4. *Mari Culture, Seaweed and Aquaculture.*

Site selection for fish culture- construction of fish farms - cultivable fishes for fresh water and brackish water - culture techniques, monoculture, composite fish culture, - pre-stocking and post/stocking management - integrated fish farming - polyculture - Pond chemistry - Dissolved Oxygen - Alkalinity, Hardness aquaculture, fish feeds - Pond disinfection with lime - Water quality management, integrated fish farming - sewage - fed fish culture - Shrimp culture - shrimp feed formulation - shrimp hatchery and nursery rearing- culture techniques of bivalves. - Role of cage and pen culture in enhancement of fish production from reservoirs

**Mari culture-** candidate species for Mariculture - Open water cages - Emerging trends in farming in open seas

**Seaweed** species of commercial importance - Culture methods - Open sea culture - Integrated farming systems - Integrated mariculture systems - Marine integrated multitrophic aquaculture(MIMTA) - Products of commercial importance from seaweeds - Emerging trends in farming in open seas.

**Ornamental fish culture** - Important Ornamental fishes of India - Live bearers -Egg layers-breeding and Culture of Ornamental Fishes - culture of Fish food organisms- aquarium Keeping.

### 5. Fishing Craft, Gear, Navigation and Seamanship:

Classification of Fishing Gear - Fishing Gear Materials -Modern Fishing gears - Trawls, Gill, Nets, Longlines Fishing Gear Accessories - Fishing Crafts of Indian Coast - Wooden boat construction - Steel boat construction - FRP boat Construction- Dry docking- Boat building yards- squid jigger;Electronic equipment- echo sounder, SONAR, RADAR, Radio telephone & GPS.

Principles of navigation and seamanship- Compass, GPS-EPIRB- Rules of road related to fishing vessels - navigational lights-- life saving devices - weather warning signals- International code flags-buoyage system, storm signals, distress signals.

## **6. Fish in Nutrition, Fish Products & By products and value addition**

Nutritional value of fish (protein, non-protein, nitrogen, lipid, minerals, micro and macro element, trace elements, other functional biomolecules)- Fish Valued added products: fermented fish products, Fish sausage, Extruded products, battered and breaded products; Fishery by products and fish waste utilization: fish hydrolysate, Fish Protein Concentrate, fish ensilage, fish maws, isinglass, shark fin rays, fish gelatin- Fish meal- fish oil- -fish protein concentrate- fish hydrolysate- fish silage - fish mays, fish glue- gelatin-isinglass and shrimp waste- chitin -chitosan.

## **7. Fish Harvest and Post-harvest (Preservation and Processing):**

Hygienic handling of fish -freshness testing- Rigor Mortis - -Freshness of fish and rigor mortis - mechanisms of fish spoilage - fish drying methods - principles of salting and salt curing methods - smoking of fishes.Canning materials - canning media - methods of canning - quality of canned fishery products.Spoilage of canned foods, types, causes and preventive measures-packaging materials for canned foods.Fish preservation by chilling and icing - preparation of ice-chemicals used in freezing - types of freezing changes during frozen storage- method of thawing. Microbiological and biochemical changes in freezing - packaging and transport of frozen fishery products - freeze drying.

## **8. Fish and Shrimp Diseases:**

Fish diseases - fish parasites -Bacterial and viral diseases-remedial measures. Shrimp Diseases - Types-Causes- Diagnostics methods - Prevention and treatment - Health management.

## **9. Fisheries Marketing, Economics & Extension:**

Economics of marine capture fisheries and fish production systems -domestic and export marketing - marketing channel, export and import policies-Contribution of fisheries to GDP-marine fishery regulations - importance of cooperatives fishermen associations, NGOs and SHGs in fisheries development - Fisheries Co - management - types of primary and secondary data for statistical analysis for policy making - fisheries investment projects, finance and project planning - socio-economics of fisherfolk.

Fisheries extension methods-ICT and Administration- Extension service for fisheries development- Important fisheries development schemes and organizations - training and follow up programmes- entrepreneurship development. Ecosystem approach for fisheries management -BEZ-Marine fisheries regulations.

## **10. Navigation and Seamanship:-**

Fire fighting and lifesaving appliances, Electronic navigation and communication aids, International laws and agreements of the sea.

## **11. Aquatic Environment Management :**

Marine, freshwater and brackish water environments.Waterquality parameters, limnology, waves and tides.Water masses, winds, clouds, ocean currents, migration



of fishes, biodiversity indices, mangroves, sea grasses, aquatic flora and fauna of ecological significance. Aquatic pollution and mitigation.

## **12. Fisheries Statistics:**

Probability, random variable, concepts of Binomial, Poisson and Normal distributions and their use in fisheries. Basic concept of sampling distribution; standard error and central limit theorem, tests of significance based on normal, t, chi-square and F distributions. Relation between correlation and regression, Length weight relationship in fishes; applications of linear regression in fisheries. Methodology for estimation of marine fish landings in India, Estimation of inland fish production in India and problems encountered.

## **13. Fisheries Administration and Legislation:-**

Fisheries and aquaculture legislations at Central and State level; Development and regulatory activities of Central, State and Local government in aquaculture and fisheries; Functions and powers of functionaries under fisheries administration; Different central and state level fisheries institutions; Principles of organization and management of public enterprise. Fisheries development over five year plans; International fisheries organizations. Schemes and incentives for promotion of entrepreneurship in fisheries sector. Government policy on small and medium Enterprises (SMEs/SSIs. Export and import Policies relevant to fisheries sector. Fisheries plans and programmes by Government.

### **NOTE:**

It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.

- The Educational qualification required for the post of Assistant Fisheries Development Officer is Post Graduation in Fisheries Science/Zoology/Marine Biology.
- The Educational qualification required for the post of Fisheries Inspector is Graduate in Fisheries Science/Zoology.

**Sd/-**  
**(Dr. K. Gopal)**  
**Joint Director (Fy)**