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QN. BOOKLET No.

015

TEST FOR POST GRADUATE PROGRAMMES

FISHERIES

Time: 2 Hours

Maximum Marks: 450

INSTRUCTIONS TO CANDIDATES

- 1. You are provided with a Question Booklet and an Optical Mark Reader (OMR) Answer Sheet to mark your responses. Do not soil your OMR Sheet. Read carefully all the instructions given on the OMR Sheet.
 - 2. Write your Roll Number in the space provided on the top of this page.
 - Also write your Roll Number, Test Code, Test Centre Code, Test Centre Name, Test Subject and the date and time of the examination in the columns provided for the same on the Answer Sheet. Darken the appropriate bubbles with HB pencil.
 - 4. The paper consists of 150 objective type questions. All questions carry equal marks.

5. Each Question has four alternative responses marked A, B, C and D and you have to darken the bubble fully by HB pencil corresponding to the correct response as indicated in the example shown on the Answer Shcet. Also write the alphabet of your response with ball pen in the starred column against attempted questions and put an '×' mark by ball pen in the starred column against unstamped questions as given in the example in the OMR Sheet.

- 6. Each correct answer carries 3 marks and each wrong answer carries 1 minus mark.
- 7. Please do your rough work only on the space provided for it at the end of this question booklet.
- You should return the Answer Sheet to the Invigilator before you leave the examination hall. However Question Booklet may be retained with the Candidate.
- 9. Every precaution has been taken to avoid errors in the Question Booklet. In the event of such unforeseen happenings, suitable remedial measures will be taken at the time of evaluation.
- 10. Please feel comfortable and relaxed. You can do better in this test in a tension-free disposition.

WISH YOU A SUCCESSFUL PERFORMANCE



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FISHERIES

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The following fish is an example for exotic fish 1.

- (B) Rohu (A) Catla (D) Tilapia (C) Mrigal
- 2. Aristichthys nobilis is called
 - Silver carp (A) Pipe fish (B)
 - (D) Common carp (C) Grass carp

3. Pristis cuspidatus is commonly called as

- (B) Saw fish (A) Bill fish
- (D) Guitar fish (C) Half beak

4. Lung fishes belong to class of

- Teleostomi (A) Holocephali (B) (D) Acanthodii
- (C) Dipnoi

Example to living fossil 5.

- Pleurocanthus (A) Coelacanthus (B)
- (C) Pterichthys

A layer, in which there is rapid decrease of temperature with depth, is called 6.

(D) Bothriolepis

(B)

(D)

thermodecline

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- (A) thermocline
- (C) thermoline (D) thermophile

Scientific name of Bombay duck is 7.

- Hilsa ilisha · (A) Harpodon nehereus (B) None of the above
- (C) Notopterus chitala

Ray finned fishes are placed in sub class of 8.

> Actinopterygii (A) Acanthopterygii (B) (D) None of the above (C) Sarcopterygii

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9.	Example to hillstream fish		
	(A) Oxygaster(C) Tor-tor	(B) (D)	Esomus Schizothorax
10.	Who led the most celebrated ocea 'Challenger'?	nographic	c expedition, the voyage of
	(A) C.W. Thomson(C) M.F. Maury	(B) (D)	J. Armstrong Edward Forbes
11.	Indian salmon is		8
	(A) Eleutheronema(C) Sardinella	(B) (D)	Rastrelliger None of the above
12.	Bech-de-mer is prepared from		
	(A) sea star(C) sea cucumber	(B) (D)	sea horse sea lily
13.	The following is known as blood cla	am	e se ve Kane Kan
	(A) Anadara (C) Paphia	· (B) (D)	Donax Katelysia
14.	The trade name 'scampi' is given to)	
	(A) Macrobrachium rosenberg(C) M. idae	ii (B) (D)	M. malacomsoni M. lamarri
15.	Brown Mussel is		-94 x 1.50 V
	(A) Perna viridis(C) M. edulis	(B) (D)	P.indicus M. smaragdinus
16.	CMFRI was established in		A DE TON
	(A) 1947(C) 1967	(B) (D)	1950 1945
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17.	Cepha	, lopod popularly known as devil	fish is	actuality with all states	⊭ज्ञ⊺ अ	
	(A) (C)	Sepia Loligo	(B) (D)	Octopus Nautilus		
18.	Mastad	cembalus armatus is known as		n ' mari san y		
	(A) (C)	spiny-eel brakish water eel	(B) (D)			
19.	Japane	se fugu fish is				
	(A) (C)	Mola- mola Balistis	(B) (D)	Tetradon Therapon		
20.	The sc:	ales of shark are				
	(A) (C)	ganoid placoid	(B) (D)	cycloid ctenoid		
21.	The mi	rror cells in the skin of fishes are	e			
ā.	(A) (C)	erythrophores xanthophores	(B) (D)	melanophores iridocytes	• 6	
22.	The cas	dual fin of shark is		e Maria Constantino de Constantino Constantino de Constantino de Constantino de Constantino de Constantino de Constantino	зr	
	(A) (C)	homocercal heterocercal	(B) (D)	hypocercal protocercal		
23.	Ocean .	Acoustic Tomography (OAT) is	extens	ively used in		
	(A) (C)	ocean depth studies ocean salinity studies	(B) (D)	ocean current studie ocean sound studies		
24.	The col	or changes in fishes is under the	contro	ol of		
	(A) (C)	nervous system enzymes	(B) (D)	circulatory system None of the above		
25.	Examp	le to deep sea fish	<u>N</u>	for a second second		
	(A) (C)	Ambasis Arius	(B) (D)	Antennarius Barracuda		

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26.	The app	bedicular selection in fishes i	s the skele	eton of
	(A) (C)	vertebral column pectoral and pelvic girdle	(B) (D)	cranial skeleton skeleton of ribs
27.	Exampl	le to carnivorous fish		
	(A) (C)	Cirrhinus mrigala Labeo rohita	(B) (D)	Wallago attu Catla catla
28.	The bl	ooming of which of the for or of the abundance of Sardin	llowing d <i>nella</i> sp.	iatom in the Arabian Sea is a
	(A) (C)	Noctiluca Fragilaria	(B) (D)	Navicula Miliolina
29.		ory air breathing organs in C		
		Contraction and Contraction		dendritic organs
	(A) (C)	skin cells air balder	(B) (D)	None of the above
30.	The org	ganisms inhabiting the bottor	n of the se	ea constitute
	(A)	the Abyss	(B)	the Benthos
	(C)	the Planktons	(D)	the Nektons
31.	The sli	me of fishes contains		
	(A)	carbohydrates	(B)	lipids
	(C)	proteins	(D)	
32.		orwegian Project vessels ity of fishing in	have ex	plored and demonstrated th
	(A)	coastal waters	(B)	deep-sea waters
	(C)	gulfs	(D)	bays
33.	The con	nmon name for the members	of Fam. 1	Leiognathidae, is
		the stand of the stand		Sector Sector Sector Sector
	(A)	Ghols	(B)	Silverbellies

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43.	Air bladders of fishes are used in the preparation of	ope M - 2-
	 (A) fish glue (B) isinglass (C) fish meal (D) fish oil 	
44.	FAO stands for	
	 (A) Fisheries of Arabian Ocean (B) Fish and Agriculture Organisation (C) Food and Agriculture Organisation (D) Fisheries and Agriculture Organisation 	
45.	Chanos Chanos is commonly called as	
۵. ۲	 (A) magur (B) milk fish (C) mullet (D) bhekti 	
46.	Example for larvivorous fish is	
	 (A) Aplocheilus. (B) Ailia (C) Silonia (D) None of the above 	
47.	Fish, yielding body oil is	
	 (A) S.fimbriata (B) S.longiceps (C) S.gibbosa (D) Serranus 	n Sàn Tan
48.	The 'Fish Wars' are the	
	 (A) conflicts between fishes (B) conflicts between sharks (C) conflicts among fishermen (D) conflicts among fish and man 	
49.	Heteropneustes is caught by using	
	 (A) fish screens (B) fish traps (C) dipnet (D) cast net 	
50.	Rain bow sardine is	

- (A) Dussumiera acuta (C) S. indicus

(B) Stoleporus commensoni(D) None of the above

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60811 7 51. Potamogeton is a (A) marginal weed (C) floating weed

- (B) submerged weed (D) emergent weed

52. Example to blue green algae is

- (B) Peridinium (A) Spyrogyra (D) None of the above (C) Biddulphia
- 53. Ideal pH level for fish ponds is

(A)	4-5	(B)	7-8
2012-0.1316	8-9	(D)	None of the above

International convention on Biodiversity Conservation was held at · 54.

(A)	Washington in Dec. 1992	(B)	Rio in Dec. 1992
	London in Dec. 1982	(D)	Paris in Dec. 1982

Fresh water fish seed is collected from rivers using 55.

(A)	cast net		traps
(C)	dipnet	(D)	shooting net

Wallago attu is a 56.

> (B) weed fish (A) predatory fish (D) herbivorous fish (C) larvivorous fish

The First Marine National Park came into existence at 57.

- (B) South Andaman (A) Gulf of Mannar (C) Gulf of Kutch
 - (D) Lakshadweep Islands

Fish and duck farming is known as 58.

- (B) poly culture (A) mixed culture
- (D) None of the above (C) integrated culture
- Which fish oil is used as a preservative for boats against weathering? 59.
 - (B) Ray liver (A) Shark liver Sardines (D) Tunas (C)

60. Tor putitora is known as

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- (A) Trout
- (C) Mahseer

61. Etroplus suratensis is called as

- (A) Chanda
- (C) Pearl spot

62. Harpadon is commonly called as

- (A) Harpoon
- (C) Bombay Duck
- 63. Torpedo is the name of a
 - (A) shark(C) manta ray
 - (C) mama tay

64. Syngnathus is commonly known as

- (A) sea horse
- (C) cat fish
- 65. Siamese fighting fish is
 - (A) Bowfin
 - (C) Betta

66. The tiger shark belongs to genus

- (A) Scoliodon
- (C) Sphyrna

67. Poison glands are present in fish

- (A) Trachinus
- (C) Therpon
- 68. *Rita rita* is an example for
 - (A) flying fish
 - (C) cat fish

(B) Tench

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(D) Snow trout

- (B) Goby
- (D) Bara mundi
- (B) Hilsa

(D) Horse Mackerel

- (B) eagle ray
- (D) electric ray
- (B) pipe fish
- (D) cyprinid fish
- (B) Bitterling
- (D) Butter fish
- (B) Carcharhinus
- (D) Stegostoma
- (B) Megalops
- (D) None of the above
- (B) eel fish
- (D) goat fish

9 69. Diumal vertical migration is seen in (A) formanifera radiolarians (B) (C) fish eggs (D) copepods 70. Red water blooms in sea are caused by (A) diatoms (B) dinoflagellates (C) blue green algae (D) desmids 71. 'The Mackerel' belongs to genus (A) Kowala (B) Caranx (C) Rastrelliger (D) Scomberomorus 72. Remora is known as (A) Porcupine fish (B) Sun fish Trunk fish (C) (D) Sucker fish 73. Turbinella pyrum is a (A) clam (B) mussel (C) oyster (D) chank 74. Both the eyes come to lie on the left side in the adults of (A) Painpus (B) Otolithiodes (C) Cynoglossus (D) Kowala 75. Which among the following fishes are called as Jew fishes? (A) Carangids Serranids (B) (C) Scianoids (D) Soles The common name of Acipensar is 76. (A) Salmon (B) Sardine

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77. Adhesive organ is present on ventral side of body in

Sturgeon

(C)

(A) hill stream fishes(B) riverine fish(C) brackish water fishes(D) marine fishes

(D) Sole fish

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78.	The am	pullae of Lorenzini in sharks are	ſ	
	(A) (C)	temperature receptors sensory receptors	(B) (D)	pressure receptors light receptors
79.	Nepa is	known as		
	(A) (C)	Back swimmer Water scorpion	(B) (D)	Giant water bug Dragon fly larvae
80.	Cage cu	ulture was originated in		
	(A) (C)	China Japan	(B) (D)	Norway Kampuchia
81.	Subme	sible type of cages are frequently	y used	in Japan for the culture of
	(A) (C)	<i>Seriola</i> sp. Carps	(B) (D)	Trouts Etroplus sp
82.	A syste	m adopted to keep the cages in d	lesired	position is called
	(A) (C)	Collar Free Board	(B) (D)	Mooring Walkway
83.	Tinka ti	inka is commonly known as		
	(A) (C)	Mahseer Snow trout	(B) (D)	Hill trout Tench
84.	Azolla	is an example for		a waiw
	(A) (C)	marginal plant submerged plant	(B) (D)	floating plant emergent plant
85.	Fishing	nets are disinfected by using dil	ute sol	lution of
	(A) (C)	CuSO4 Ca(OH)O2	(B) (D)	KMnO4 NaOH
86.	Ctenop	haryngodon idella is commonly o	called	as
		an an Branc a star	1000	

(A) major carp(B) minor carp(C) common carp(D) grass carp

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87.	The bird	s that control weeds in the fish p	onds	are provide the state of the	ŝ,
	(A) (C)	Cormorants Ducks	(B) (D)	Herons Vultures	
88.	Carassi	us carassius is commonly known	1 as	$= - \frac{1}{10} \left[e^{-\frac{1}{2} \left[e^{$	
	(A)	Silver carp	(B)	Golden carp	
	(C)	mirror carp	(D)	common carp	
89.	Soil sui	table for pond construction is			
	(A)	sandy soil		clayey soil	
	(C)	muddy soil	(D)		
90.	A struc retain it	ture, which normally supports is shape; is called	and t	puoys the cage bag and to	help
	(A)	collar	(B)	nail	
	(C)	frame	(D)	free board	
91.	Fresh w	vater brood fishes are narcotized	by usi	ng	
	(A)	cocaine	(B)	quinaldine	
	(C)	methanol	(D)	nicotine	
92.	In fishe	es fecundity is influenced by			
	(A)	Oxygen	(B)	pH	
	(C)	photoperiod	(D)	turbidity	
93.	Labeo	bata grows to a maximum length	of		
	(A)	30 cm	(B)		
	· (C)	50 cm	(D)	60 cm	
94.	Earther	n vessels used in transportation o	f carp	seed are known as	.31
	(A)	pans	(B)	hundies	
	(C)	hapas	(D)	승규는 것이 이렇게 걸었는 것이 없이 물었는 것이 없다.	

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95.	The cor	nmonly used inorganic fertiliz	zer in a fi	sh pond is
	(A) (C)	ammonium carbonate ammonium sulfate	(B) (D)	ammonium nitrate ammonium phosphate
96.	Antibio	tic bath given to fishes before	transpor	t contains the chemical
	(A) (C)	potassium permanganate sodium nitrate	(B) (D)	calcium carbonate potassium hydroxide
97.	Enclos	ares formed by damming a ba	y or fjord	are called
	(A) (C)	pans pons	(B) (D)	pens panesi
98.	Murrel	is the common name for		· · · · · · · · · · · · · · · · · · ·
	(A) (C)	Mugil Mystus	(B) (D)	Channa Chanos
99.	Fishes	tolerant to wide range of salin	ity are ca	lled
	(A) (C)	stenohaline eurythermic	(B) (D)	stenothermic euryhaline
100.	Examp	le for weed fishes		
÷	(A) (C)	Esomus Mystus	(B) (D)	Channa Notopterus
101.	Bacteri	um which commonly causes of	lisease in	fishes is
	(A) (C)	Nitrosomonas Staphylococcus	(B) (D)	Aeromonas Streptococcus
102.	Alkalos	sis-in ponds is caused by exce	ssive	
	(A) (C)	Crowding Plant growth	(B) (D)	Zooplanton Parasites
103.	Clarius	batrachus is commonly calle	d as	.T
	(A) (C)	magur mullet	(B) (D)	murrel milk fish

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104.	Example for ornamental fish	, 1 is all there			
	(A) singhi(C) trout		(B) (D)	sword tail tench	
105.	The fish cultured in coastal	cages is		1 2 m 1 1	
	(A) Lates calcalifer (C) Tilapia mossambic	а	(B) (D)	Clarius batrachus Rastrelliger kanagurta	
106.	Salmo gairdineri gairdiner	ri is known a	S		
	(A) brown trout(C) pink salmon		(B) (D)	rain bow trout None of the above	
107.	Monoculture of male is foll	owed in the f	follow	ing fish	
	(A) Channa (C) Tilapia		(B) (D)	Wallago Labeo	
108.	'Red Tide' is caused by			* 1 G 136 T	
	(A) red mullets(C) red algae		(B) (D)	dinoflagellates Ectocarpus sp.	
109.	'Costless Fertilizer factorie	s moving on	hoove	es' is the phrase used for	
	(A) goats(C) cattle		(B) (D)	pigs sheep	
110.	If the pond water is mudd	y it is made o	clear b	y the application of	
	(A) epsum salt(C) blue vitriol		(B) (D)	gypsum salt green vitriol	
111.	Pituitary glands of fishes a	re dehydrated	d by u	sing .	
	(A) Acetone(C) Alcohol		(B) (D)		
112.	Eggs of common carp are		Ê	s. s.12590 - 23	
	(A) floating(C) non-adhesive	n in Girta	(B) (D)		
	3	1.00-1		э.	

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(A)	maturation	(B)	sex reversal
(C)	induced breeding	(D)	increasing size

114. Fringe lipped carp is

(A)	L. kontius	(B) L. bata
(C)	L. frimbriatus	(D) L. calabasu.

115. Where are the Fry raised to Fingerlings?

(A)	hatcheries	(B)	nurseries
(C)	rearing Ponds	(D)	stockin'g ponds

116. Ammonia concentration at this level is toxic to fish

(A)	0. 05 mg/l	(B)	0.5mg/l
(C)	1. 5mg/l		2. 5mg/l

117. Example to live bearing ornamental fish is

(A)	gold fish	(B)	oranda
(C)	molly	(D)	calico

'Parallel Ponds' constitute the 118.

(A)	barrage ponds	(B)	diversion ponds
(C)	paddy ponds		sewage-fed ponds

119. Lobster larva is known as

(A)	Alima	(B)	Leptocephalus
(C)	Phyllosoma		Megalopa

- (C) Phyllosoma
- 120. 'SECCHI DISC' is used to measure
 - (A) Transparency
 - (C) Alkalinity
- 121. PL 15 means
 - (A) 15minutes old post larvae
 - (C) 15 days old post larvae
- (B) Hydrogen-ion-concentration (D) Hardness
- (B) 15 hours old post larva

(D) None of the above

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122. Cannibalism is seen in (B) echinoderms (A) seerfishes (D) crabs (C) oysters 123. Fish cultured in sewage fed farms are (B) eels (A) carps (D) hilsa (C) catfish "Gas bubbles" disease in fishes is caused by excessive levels of 124. (B) Carbon dioxide (A) Oxygen (D) Helium (C) Nitrogen Black lipped pearl oyster is 125. (B) P. margaretifera (A) Pinctada fucata (D) P. sugillata (C) P. maxima The animals which are relatively large and powerful, and can combat water 126. currents, are called (B) nektons (A) neuston (D) swimmers (C) planktons 127. Alima larva is the larva of (B) marine shrimp (A) mantis shrimp (D) crab (C) lobster Fish samples are compared by using statistical test 128. (B) Histogram (A) F-Test (D) Standard deviation (C) T-Test "Shagreen" is prepared from 129. (A) crocodile skin (B) sea snake skin (C) shark skin (D) None of these

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130.	EEZo	f India extends up to		
	(A) (C)	12n-miles 200 n-miles	(B) (D)	200 km 20n-miles
131.	Diatom	s belong to		
	(A) (C)	Xanthophyceae Bacillariophyceae	(B) (D)	Myxophyceae Dinophyceae
132.	Commo	on name of Pampus argenteus is		
	(A) (C)	silver pomfret black pomfret	(B) (D)	red pomfret brown pomfret
133.	White s	pot disease in fish is caused due	to	
	(A) (C)	viral infection protozoan infection	(B) (D)	bacterial infection metazoan infection
134.	Argulu	s is a		
	(A) (C)	protozoan parasite of fish copepod parasite of fish	(B) (D)	cestode parasite of fish fungal infection in fish
135.	Gonado	osomatic index of fish can be cal	culate	d by using the formula
*	(A)	$\frac{\text{Wt. of gonads}}{\text{Wt. of fish}} \times 100$	(B)	$\frac{\text{Wt. of fish}}{\text{Wt. of gonads}} \times 100$
	(C)	Length of fish Wt. of gonads	(D)	Length of gonads Wt. of fish
136.	To hold it is ess	the water at a definite level in a cential to construct a	ı pond	and also to serve as a causeway,
	(A) (C)	spillway sluice	(B) (D)	monk dike

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137. Whose experiments advocated the use of 'pituitary injections' in the spawning of fishes?

(A)	Atz and Pickford	(B)	Evans	
(C)	Houssay	(D)	Hoar	

138. Common name of *Tetrodon* is

(A)	porcupine fish	(B)	puffer fish
	gaint fish	(D)	None of the above

139. Scientific name of African lung fish

(A)	Protopterus	(B)	Lepidosiren
433	Arius	(D)	Syngnathus

140. The following is an example for exotic larvivorous fish

(A) Puntius ticto
(B) Notopterus notopterus
(C) Labeo rohita
(D) Gambusia affinis

141. Wet bundhs can also be called as

(A) perennial bundh
(B) seasonal bundh
(C) closed bundh
(D) None of the above

142. Pituitary Gland extracts are injected to induce

(A) ovulation
 (B) gonadal development
 (C) sex play
 (D) secretion of sex hormones

143. The following groups of fishes breed only in running fresh water

	major carps		minor carps None of the above
(C)	mirror carps	(D)	None of the above

144. 'Egg collectors' are provided in the 'breeding hapa' for breeding of

- (A) common carp (B) major carp (D) silver carp
- (C) grass carp

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145. Which of the following fish is an example for Oceanodromous migration?

(A)	salmon	(B)	hilsa
(C)	anguilla	(D)	tunas

146. The best time of releasing the brood fishes in the 'hapa' is in the

(A)	morning	(B)	evening
(C)	noon	(D)	night

147. Forked caudal fin is observed in

(A)	tuna	(B)	etroplus
(C)	flounder		anabas'

148. When introducing exotic species, the species should

- (A) not compete with native species
- (B) not cross with native species
- (C) not carry any disease
- (D) All of the above

149. 'Pokkali' refers to

- (A) a rice field in Kerala
- (B) a fish cultivated in rice fields of Kerala
- (C) a salinity resistant rice variety cultivated in Kerala
- (D) a tribe which cultivates rice in Kerala
- 150. Gonadotropins are the products of

(700 marine) (174) Presentation (174)

- (A) hypothalamus
- (B) gonads

1940 Lan 19

(D) synthetic alalogues

(C) pituitary