

60813		
ROLL No.		
	TEST BOOKLET No.	091

TEST FOR POST GRADUATE PROGRAMMES

FISHERIES

Time: 2 Hours Maximum Marks: 450

INSTRUCTIONS TO CANDIDATES

- You are provided with a Test Booklet and an Optical Mark Reader (OMR) Answer Sheet to mark your responses. Do not soil the Answer Sheet. Read carefully all the instructions given on the Answer Sheet.
- 2 Write your Roll Number in the space provided on the top of this page.
- 3. Also write your Roll Number, Test Code, and Test Subject in the columns provided for the same on the Answer Sheet. Darken the appropriate bubbles with a Ball Point Pen.
- 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 a Ball Point Pen corresponding to the correct response as indicated in the example shown on the Answer Sheet.
- 6. Each correct answer carries 3 marks and each wrong answer carries 1 minus mark.
- 7. Space for rough work is provided at the end of this Test Booklet.
- 8. You should return the Answer Sheet to the Invigilator before you leave the examination hall. However, you can retain the Test Booklet.
- 9 Every precaution has been taken to avoid errors in the Test Booklet. In the event of any such unforeseen happenings, the same may be brought to the notice of the Observer/Chief Superintendent in writing. Suitable remedial measures will be taken at the time of evaluation, if necessary.



FISHERIES

1	Production of luminescence by fishes is due to the presence of			
	(A)	Luceferin	(B)	Oxyluceferin
	(C)	Luciferace	(D)	None of the above
2.	Lung fi	shes belong to the sub-class		
	(A)	Brachiopterygii	(B)	Crossopterygii
	(C)	Actinopterigii	(D)	Dipneusti
3.	CIFT is	involved in the research wor	k on	
	(A)	designing of new crafts, gea		
		innovative methods of fishing		
	(C) (D)		gines	
	` •			
4	Sharks,	skates, catfishes and perches	are	
	(A)	Pelagic fishes	(B)	Demersal fishes
	(C)	Shore fishes	(D)	Shell fishes
5	"Masn	in" is prepared traditionally	by the	meat of
	(A)	Soles	(B)	Flat fishes
	(C)	Tunas	(D)	Cat fishes
6.	Pearl oy	yster used for the production	of lust	trous pearls is
	(A)	Pinctada fucata	(B)	Perna viridis
	(C)	P margaratifera	(D)	Pteria penguin
7	Process	ing of fish by salting, drying	, smok	ting and pickling is known as
	(A)	caring	(B)	curing
	(C)	cloning	(D)	cleaning



8.	Isinglas	s is prepared from		
	(A) (C)		(B) (D)	liver of fish skin of fish
9.	Fish liv	er contains		
		Vitamin E and B Vitamin A		Vitamin C Vitamin A and D
10.	Artemia	is used as	in aquacu	lture
		dry feed powdered feed	` ,	live animal feed granular feed
11.	Which	fishery is represented by	a single sp	pecies?
		Sole fishery Bombay duck fishery		Mackerel fishery Sardine fishery
12.	Androg	enic steroids are for		
		feminisation bisexual characters	(B) (D)	masculinisation monosex
13.	Sargass	um is used for the extra	ction of	
		agar algin	(B) (D)	coir agaroids
14.	Which	chemical is used for pre-	serving pit	nitary gland extract?
		Formalin Glycerin		Iodine Alcohol
15.	Bheri c	ulture is common in		
	. ,	Andhra Pradesh West Bengal	(B) (D)	Orissa Kerala

16.	Gynog	enesis means		
	(B) (C)	chromosomal manipulation parthenogenetic development polyploidy inbreeding		
17.	In fish,	high protein content is prese	ent in	
		muscle liver	(B) (D)	
18.	Treatme	ent of fish with salt is known	ı as	
	(A) (C)	brining caming	• •	smoking drying
19	Scientif	ic name of Indian oil sardin	es is	
		Sardinella albella Sardinella dayi		S. melanura Sardinella longiceps
20.	Pangas	ius is a		
		cat fish carp		murrel flying fish
21.	Neuron	nast cells in fishes are associ	ated w	ith
		nervous system lateral line system		skeletal system muscular system
22.	Chilka	Lake is located in	Sta	ite
	(A) (C)	Gujarat Andhra Pradesh	(B) (D)	Maharashtra Orissa

23.	. Kollern Lake is a			
	• •	Brackish water lake Fresh water Lake		Salt lake None of the above
24.	The cor	nmon name of Lates calcarife	er is	
	(A) (C)	sea lion milk fish	(B) (D)	sea bass ribbon fish
25.	What is	the limit of EEZ		
	(A) (C)	300 nautical miles 50 nautical miles	(B) (D)	100 nautical miles 200 nautical miles
26.	Scale re	ading in fishes is done to dete	ermin	e their
	(A) (C)	growth age	(B) (D)	length health
27	Sonar ir	nstrument is used to detect		
	(A) (C)	ships fishes	(B) (D)	boats None of the above
28.	Which USA?	species is being used as a	biolo	gical weed control agent in
	(A) (C)	Common carp Scale carp	(B) (D)	Grass carp Mitror carp
29.	Hypoph	ysation is used to		
	(A) (B) (C) (D)	increase natural spawning		



30.	Segregation ponds are used for keeping				
	(A) (C)	fingerling stages adults	(B) (D)	brood stock frys	
31.	Which	one of the following is a surf	ace an	d column feeder?	
	(B) (C)	Cyprinus carpio Catla catla Cirrihinus mrigala Ctenopharyngodon idella			
3 2.	A pie di	agram is a			
		bar diagram square	(B) (D)	circle rectangle	
33.		culture ponds fish survival content; such a condition is		atened due to sudden fall in only referred to as	
		oxygen stress asphyxiation		low oxygen levels high CO ₂ stress	
34.	Long te	rm preservation of gametes i	is achie	eved by	
		preservation in formalin free drying		cryopreservation air drying	
35.	Cultiva is	ting aquatic organism in ope	n wate	ers but in fence-enclosed area	
		bay culture pen cultures	(B) (D)		

36.	Ablone	farming was initiated in		
	(A) (B) (C) (D)	Thailand and Malaysia Indonesia and New Guinea		
37		at live their adult life in the p spawn are	sea b	ut migrate up to fresh water
	(A) (C)	-	(B) (D)	
38.	In the s	ea, a condition where water	s are (depleted of oxygen is known
	(A) (C)	paraxia decarbonised water	(B) (D)	* *
39.	A syste		ion on	n fish availability using eco-
	(A) (C)	•	(B) (D)	-
40.	Aquatic	organisms which live on or	in the	seabed are
	(A) (C)	plankters benthos	(B) (D)	incidental fish shell fish
41.		at live their adult life in fresl in the seas are	ı wate	er rivers but migrate down to
	(A) (C)	catadromous oceanodromous		anadromous None of the above

42.	Cephalo	ppods belong to the group		
		crustacea mollusca	. ,	echinodermatā mammals
43.		et suspended by floats so that tres of the top water column		hes the stock available on the
	- ,	bottom set net ghost net		drift net stake net
44.		line with hooks held vert is known as	ically	in the water column with
		dropline drift hooks		floating line jigs
45.	Fish tha	t tolerate wide range of salin	ity are	
		euryhaline migratory		stenohaline deep water
46.		reme increase in chemical prous in an ecosystem is	nutrie	ents containing nitrogen and
		nitrification putrification		eutrophication detoriation
47		cone under the law of the so and use marine resources is	ea ov	er which a state has right to
	• /	off shore zone exclusive economic zone		deep water zone fishing zone
48.	The porcycle is		ty of	a fish during a reproductive
		ovulation fecundity	(B) (D)	•



49.	rishing nets lost in the ocean but continue to capture and kill fish are called			
	(A)	drift nets	(B)	trawl nets
		waste nets		ghost nets
50.	fishing	is a device that uses satell vessels position in the sea.	ite sign	als to accurately determine a
	(A)	TGS	(B)	GKS
		GPS	(D)	
51.	A meth		vertica	d line attached with multiple
	(A)	jogging	(B)	jigging
	(C)	jukung	(D)	jamming
52.		ow salt or brackish water bow or exposed sand bank or		nrated from the deeper sea by ef is
	(A)	lagoon	(B)	backwater
	(C)	estuary	(D)	tidal flat
53.		g marine organisms whose i r currents is	noveme	ents depend on the movement
	(A)	marine nekton	(B)	marine benthos
		marine plankton		marine species
54.		ouration of surface waters of ful algal bloom is	of sea c	aused by large concentration
	(A)	colour tide	(B)	black waters
		red tide	(D)	
5 5.	The pos	sition that a species occupie	s in a fo	ood chain is
	(A)	trophic level	(B)	trophic band
	(C)	trophic group	(D)	feeder



56.	Anbas has which type of respiratory organ?			
		Arborescent Labrinthine	(B) (D)	Air bladder Tubular sacs
57	Adipos	e tissue of fish is formed of		
	(A) (C)	protein fat	(B) (D)	
58.	Elasmo	branchii includes		
		bony fishes jawless fish	(B) (D)	•
59.	Eye sta	lk ablation is done to induce	the sp	awning of
	(A) (C)	mullet Chanos	(B) (D)	shrimps Channa
60.	Fish is	the richest source of		
	, ,	silica magnesium	(B) (D)	protein zinc
61	Vitamii	n A is more in		
		cod liver oil fish flesh	(B) (D)	•
62.	Elver is	the larva of		
	(A) (C)	Eel Mullet		Murrel Channa
63.	Shark f	ish skin is formed of		
		Cycloid scales Placoid scales	(B) (D)	Ctenoid scales Ganoid scales

64.	Which hormone is involved in the process of osmoregulatio			of osmoregulation?
	` '	Adrenalin Thyroxin	(B) (D)	Insulin Oestrogen
65.	Which i	fish can produce electricity?		
		Narcine Mugil		Sardine Milk fish
66.	Monoto	nous sound is produced by		
		Sea horse Sea weed		Sea cucumber Sea anemone
67	Lumino	ns glands are present in		
		Cat fish Acropoma	(B) (D)	Monocentrus Electric ray
68.	Melanii	gives colour to		
	(A) (C)	cye liver		skin heart
69.	Enzyme	es are		
		fats proteins		vitamins starches
70.	Which	is the primary cause of spoil	age of	fish?
		Bacteria Protozoa		Fungus Virus
71.	Which	is the example of Indian hill	trout?	
		Torputitora Tortoise		Torpedo Echeneis

72.	'Pokkal	i' culture is practiced in				
		London Kerala		America Tamil Nadu		
73.	Which	is also called 'pearl spot'?				
		Tilapia Etroplus	(B) (D)	Clarias Macropodus		
74	'Roe' is	s called				
		sperm hung of fish	(B) (D)	ovary of fish vas deferens of fish		
75.	Which	one is an ornamental fish?				
	(A) (C)	Guppy Tuna	(B) (D)			
76	Crustaceans release excess water through					
		kidney gills		chloride cells green glands		
77.	Who is regarded as the Father of Modern Biology?					
		Aristotle Robert Hooke		Darwin Vesalius		
78.	Bacteria	al action changes dead leaves	s into			
	(A) (C)	_		fungi None of the above		
79	Most fi	sh do not sink in water becat	ise of	the presence of		
	(A) (C)	air bladdar vacuoles		air sacs None of the above		



80.	The study of fishes is known as					
		Ichthyology Nematology	, ,	Ornithology Osteology		
81.	Which	one is a flying fish?				
		Eleuthronema Carangid	(B) (D)			
82.	Male s	ea-horse carries the eggs				
	(C)	in its mouth as a glutinous mass on the in its pouch in its stomach	back			
83.	In some fishes, electricity is produced					
	(C)	to stun smaller creatures for to protect them from eneme to produce light to aid locomotion				
84.	Fishes in the culture ponds come to the surface in the morning for want of					
	(A) (C)	oxygen sunlight	(B) (D)	food shade		
85.	Polyculture means					
		culture of fish in a pond culture of move prawns in		of fish		



86.	Sea urc	hins belong to the class		
	(A) (C)	Holothuroidea Helicoplacoidea		Echinoídea Ophiocystioidea
87.	Large q	uantities of 'Isinglass' can be	e obtai	ned from the air-bladders of
	(A) (C)	Sturgeons Catfishes	(B) (D)	Sharks Snake-heads
88.	Which	of the following is called as '	Paddle	e Fish'?
		Polyodon Pangasius		Paiaeoniscus Polypterus
89.	The firs	t Ray of Spinous dorsal trans	forme	ed into 'ILICIUM', in
		Lophiformes Siluriformes	(B) (D)	Echneiformes Gadiformes
90.	Pectora	l fins are exceptionally large	for gli	iding purposes over water, in
		Exocoetus Torpedo		Trygon Belone
91.	Vertical	Swimming with prehensile	tail is	the characteristic of
		Top Minnows Cornets		Pipe Fishes Flying Fishes
92.	Snout feature		hook	-like process, is diagnostic
		Callorhynchus Harriota		Chimaera Pristis



93.	The 'Milk Fish' belongs to the family					
		Chanidae Bagridae		Mugilidae Cichlidae		
94.	'Murrel	' or 'Snake Head' is the com	mon i	name for		
		Mystus Channa		Mugil Chanos		
95	'Pomfre	et' is the common name for				
		Tuna Perch	(B) (D)	Stromateus Harpadon		
96.	'Freshwater Dog Fish' is the name assigned to					
		Polyodon Amia		Scoliodon Wallago		
97	Which	of the following family is VI	VIPA	ROUS?		
		Percidae Fistulariidae		Siluridae Poeeiliidae		
98.	'Mullet	s' belong to the Genus				
	` .	Murrels Nondus	• -	Channa Mugil		
99.	The larg	gest number of species occur	s in			
	(A) (C)	Subtropical region Temperate zone	(B) (D)	Tropics Subtemperate region		



100.		s prolonged into a long blactic feature of	le wit	h teeth on both sides, is the
	(A) (C)	Trygon Sphyrna		Pristis Manta
101.	ʻlndiger	nous Larvivorous Fishes of I	idia' i	s the book written by
	(A) (C)	Hora A.G.K. Menon		Hora and Mukerji T.J. Job
102.	Which i	is called as 'Guppy'?		
		Macropodus Mollienisia		Colisa Poecilia
103.	Which o	of the following is a 'Bacteria	al Dise	ease'?
	(A) (C)	Velvet Disease Fin-Rot		Costiasis Cilodon disease
104.	'Dragor	nfly Larvae'		
	(C)	cause Fin-Rot Disease cause Turbidity in tank cause damage to fishes act as food for aquarium fis	hes	
105.	CMFRI	was established in		
	(A) (C)		(B) (D)	1950 1945
106.	The hea	ndquarters of National Institu	te of (Oceanography is at
	(A) (C)		(B) (D)	Mumbai Papaji

107.	The organisms inhabiting the bottom of the sea constitute				
	(A) (C)	the Abyss the Planktons	(B) (D)		
108.	FAO is	the full form for			
	(C)	Fisheries of Arabian Ocean Fish and Agriculture Organ Food and Agriculture Organ Fisheries and Agriculture O	nisatio	on	
109.	The 'Fi	sh Wars' are the			
			ın		
110	The Fire	st Marine National Park came	e into	existence at	
		Gulf of Manuar Gulf of Kutch	. ,	South Andaman Lakshadweep Islands	
111.	Which	'OIL' is used as a preservativ	e for	boats against weathering?	
		Sharks Sardines	(B) (D)	_	
112.	Both the	e eyes come to lie on the left	side i	n the adults of	
		Pampus Cynoglossus		Otolithodes Kowala	
113.	A system adopted to keep the cages in desired position is called				
	(A) (C)	Collar Free Board	(B) (D)	Mooring Wal-way	



114.	Where are the Fry raised to Fingerlings?				
	(A) (C)			Nurseries Stocking Ponds	
115.	Applica	tion of Gypsum in a pond co	rrects	the	
	(A) (C)	pH hardness	(B) (D)	alkalinity turbidity	
116.	The most common method of correcting the low pH is				
	(A) (C)	-	(B) (D)	liming putting organic manure	
117.	The ratio between food consumed for per unit weight gamed by the body is expressed by				
		food conversion rate food consumption rate	(B) (D)	food absorption rate food assimilation rate	
118.	To calc	ulate 'Condition Factor' which	h of t	he following is studied?	
	(B)	Length-Weight Relationship Length frequency distribution Weight of ovary and weight Health of the fish	n	dy relationship	
119.	'The we	eight of the gonad relative to	the bo	dy weight' is known as	
	(A) (C)	Coefficient of Maturity Ponderal Index	(B) (D)	Gonadosomatic Index Maturity Index	
120.	Fecundi	ity of marine fishes is usually			
	(A) (B) (C) (D)	higher than Freshwater Fish			



121.	The Number of Ova per gram body weight, is defined as			
		fecundity relative fecundity	(B) (D)	absolute fecundity complete fecundity
122.	Most of	the cultivable carps in India	are	
	, ,	Monsoon Breeders Spring Spawners		Winter Spawners Summer Spawners
123.	Pituitar	y Gland extracts are injected	to ind	nce
		ovulation sex play	(B) (D)	-
124.	4. The head quarters of Marine Products Export Development Auth is at			
		New Delhi Kochi	(B) (D)	Chennai Kolkata
125	Culture	-based capture fishery is asso	ciated	with
		ranching pig-fish	(B) (D)	rice-fish aquaculture
126.	Hoteroc	ercal type of caudal fin is for	ınd in	
	(A) (C)	Scorpion Eel		Scoliodon Tilapia
127	The aqu	natic animal with the most de	velop	ed intelligence is
	(A) (C)	Whale Dolphin	(B) (D)	Seal Shrimp

128.	Mermaid purse is produced by			
		Shark and Rays Etroplus and cat fish	(B) (D)	•
129	ICAR is	5		
	(B) (C)	Indian Council of Agricultu Indian Costal Aquacultural Indian Council of Aquatic I Institute of Coastal Researc	Resea Resear	rch
130.	Fishes r	elease excess water in the bo	dy thi	ough
	(A) (C)	Chloride cells Green Glands	(B) (D)	
131.	The ass	ociation between shark and s	ucker	fish is referred to as
	(A) (C)	Mutualism Symbiosis	(B) (D)	
132.	Indicate	the correct hierarchy.		
	(A) (C)	Family, species, genus Species, family, genus	(B) (D)	Genus, family, species Family, genus, species
133.	Which	of the following is best used	as 'Ac	quarium Cleaner"?
		Noemacheilus Gambusia	(B) (D)	Poecilia Gyrinochellus
134	Flattene	ed Head is the characteristic	of the	genus
	(A) (C)	Platysurus Platymystus	(B) (D)	Platycephalus Platynemus



135.		nich of the following can be considered as the growth rate pressing structure?				
	(A) (C)	Deposition of fat Otolith	(B) (D)	Increase in length of ovary Budlging abdomen		
136.	'Ponde	al Index' is another term for				
	(A) (C)	Maturity of Gonads Growth factor	(B) (D)	Food Quotient Condition Factor		
137	Trout fa	arming in ponds originated in				
	(A) (C)	Denmark China	(B) (D)	Japan USA		
138.	Trough	s and Baskets are used as incu	bator	s in		
	(A) (C)	Catfish culture Trout culture	(B) (D)	Tilapia culture Crop culture		
139.	Pro-, m	eso- and metapterygia are the	skele	tal elements of		
	(A) (C)	Pectoral girdle Dorsal fin	(B) (D)	Pelvic girdle Caudal fin		
140.	'Layers	' and 'broilers' are the terms	used i	n		
	(A) (C)	<u> </u>	• ,	Poultry-fish farming Cattle-fish farming		
141	'Rigor	nortis' is basically characteris	sed by	,		
	(A) (C)	stiffening of body asphyxiation	(B) (D)			

142.	The fishes coming under the class Elasmobranchii will have			
	(A) (C)	two gill openings four gill openings	(B) (D)	• , -
143.	What is	the function of petasma?		
	(C)	Transferring the spermatoph Protection Transport of egg Change its size	ores	
144.	What is the use of chloride cells in fishes?			
	(A) (C)	To eliminate blood cells To eliminate wastes	(B) (D)	To eliminate chloride ions To eliminate ions
145.	Formali	n is used in the		
	(A) (B) (C) (D)	preservation of biological sp preparation of sleep produci	ng dra	ıg
146.	Oviparo	ous fish produce		
		Eggs Young ones	(B) (D)	Babies Adults
147.	The mu	cus or slim covering of a fish		
	 (A) protects its body from the action of the water (B) facilitates swimming (C) protects the fish from its enemies (D) helps respiration 			



- 148. Bye catch means
 - (A) targeted fish catch in a trawl net
 - (B) non-targeted catch in a trawl net
 - (C) second-level catch in a trawl net
 - (D) purchase of a trawl catch
- 149. Which of the following is a larvicidal fish?
 - (A) Puntius ticto
- (B) Aplocheilus lineatum
- (C) Labeo rohita
- (D) Catla catla
- 150. Which is an Exotic carp species?
 - (A) Cirrinus mrigala
- (B) Labeo rohita
- (C) Cyprinus carpio
- (D) Catla catla