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TEST BOOKLET No.

108

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 corresponding to the correct response fully by a Ball Point Pen 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 happening, 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.

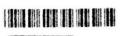
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FISHERIES

1.	Which	is the fastest growing Indian major carp?				
	(A) (C)	Cirrhinus mrigala Cyprinus carpio	(B) (D)	Cirrihinus reba Catla catla		
2.	Which	one is an ornamental fish?				
	(A) (C)	- Cuip	(B) (D)	Tilapia Murrel		
3.	This fi	sh is found in inundated paddy	field	s during monsoon seasons		
	(A) (C)	Red tilapia Catla	(B) (D)	Rohu Cat fish		
4.	Which	state is more popular for eatir	ng fres	sh water carps?		
	(A) (C)	Kerala Maharashtra	(B) (D)	Karnataka West Bengal		
5.	All Fisl	neries Colleges come under th	ne pre	view of		
	(A) (B) (C) (D)	(B) University Grants Commission(C) Indian Council of Agricultural Research				
6.	Central	Institute of Fisheries Techno	ology	is located at		
	(A) (C)	Bengaluru Chennai	(B) (D)	Kochi Mumbai		
7.	Which i	ngredient is used in poultry	feed 1	manufacture?		
	(A) (C)	Rice Fish meal	(B) (D)	Fish protein concentrate Fish sausage		

8.	Which one is mostly exported to	overseas	market?
	(A) Catfish(C) Pomfrets	(B) (D)	Carps Shrimps
9.	Which is the Oceanic fish?		
	(A) Pearl spot (C) Prawn	(B) (D)	Tuna Ladyfish
10.	Which processing method is used	for expo	rt shrimps?
	(A) Canning (C) Smoking	(B) (D)	Freezing Chilling
11.	Which of the following is not a fi	sh?	
	(A) Jelly fish(C) Lady fish	(B) (D)	Seer fish White bait
12.	Which one is banned for culture i	n India?	
	(A) Catla(C) Cuttle fish	(B) (D)	Lobster Tilapia
13.	Largest brackish water lake in Ind	lia is	
	(A) Chilka(C) Hoogly estsury	(B) (D)	Govind Sagar Methu dame
14.	The first Fisheries College in India	a establis	hed and functioning at
	(A) Tuticorin(C) Ratnagiri	(B) (D)	Panangad, Cochin Mangalore



		of the exporting fish processing plants in India are expected to be guidelines of				
	(A) (C)	ICAR HACCP	(B) (D)	DST Chinese		
		organisation is responsible s markets?	for 1	promotion of sea foods for		
	(A) (B) (C) (D)	Department of Biotechnolog	sy.			
17. V	Vhich o	one is located within the territ	tory o	of India?		
	(A) (C)	Colombo island Dubai	(B) (D)			
18.	Who is	considered as 'Father of Ind	ian F	isheries?'		
		M.G.K. Menon V.G. Jhingran	(B) (D)			
19. L	argest	Sewage fed farm is located a	at			
	. ,	Vembanad lake Narmada estuary	(B) (D)			
20. R	ich sou	arce of Vitamin A is		ž		
	(A) (C)	Fish muscle Shark skin	(B) (D			
21. S	cale pa	ettern in common carp is con	ntroll	ed by		
	(A) (C)	Mutation Mutagenesis	(B	(, •) , ,		

22.	In integrated fish farming the following one is most popular				
	(A) Ducks (C) Camel	(B) (D)			
23.	Lobsters belong	to			
	(A) Mollusc (C) Crustace	(15)	Ehinodermata Ceolenterates		
24.	Seaweeds are go	od source in the manufa	cture of		
	(A) Fish prot(C) Vitamin	tein concentrate (B) A (D)			
25.	Identify the comm	non refrigerant used in t	he plate freezing.		
	(A) CO ₂ (C) Freon	(B) (D)	_		
26.	What is IQF?				
		uick Frozen (B) Ily Quick Frozen (D)			
27.	What is the averag	ge salinity of sea water?			
	(A) 15 ppt (C) 66 ppt	(B) (D)	100 ppt 35 ppt		
28.	Gulf Stream is a				
	(A) River (C) Ocean cur	rent (B)	Glazier Cold water stream		
29.	Global warming is	attributed periodically	to occurrence of		
	(A) Ocean hea(C) Heavy sho	• , ,	Land heating Elnino phenomenon		



30.	The bes	The best indicator organisms of pollution					
	(A) (C)	Prawn Mussels	(B) (D)	Fish Carps			
31.	Heavy r	nutrient influx and over fertili	zation	in a lake is referred as			
		Eutrophication Limnophilic	(B) (D)	Putrification Oxidation			
32.	The pre	dominant compound/mineral	prese	nt in sea water is			
	(A) (C)	MnSO ₄ Mg	(B) (D)	CaCO ₃ NaCl			
33.	Coral re	eef fishes are abundant aroun	d				
		Lakshadweep Odisha coast	(B) (D)				
34.	Which	is the maritime state?					
		Assam West Bengal	(B) (D)				
35.	Catchin	ng of which of the following	anima	als is prohibited?			
	(A) (C)	Crabs Lobsters	(B) (D)				
36.	Which	of the following fish is mign	ratory	in nature?			
	(A) (C)	Catfish Catla	(B) (D)				

37	Centre of Acunder	Ivanced Study in Mari	ine Bio	logy at Parangipettai comes
	(B) Kera (C) Anna	ras University la University amalai University ain University of Scien	ce and	Technology
38.	Ocean Pearls	were usually collected	by	
	(A) Boat (C) Pump	ing ping seawater	(B) (D)	Hook and line SCUBA diving
39.	Quick matura	tion in penaeid shrimp	s is acl	nieved by
		oval of legs ion of telson	(B) (D)	
40.	Sovereign righ a depth (in me	ats for the countries ov ters) of	er thei	r continental shelves is up to
	(A) 100 (C) 50		(B) (D)	200 500
41.	Fish eating hel	ps to		
	(B) decrea (C) decrea	se risk of cardiac arre se muscular pain se risk of cardiac arre se cholesterol		
42.	Maximum fresh	nwater aquaculture pr	oducti	on comes from
	(A) Salmon (C) Carps	ns	(B) (D)	Catfish Prawns
43.	The gonadotrop	ins are produced in		
	(A) Hypoth (C) Gonads	alamus	(B) (D)	Pituitary Pancreas

44.	Quality	of feed is judged by		
	(A) (C)	FCR Size of fish	(B) (D)	SGR Feeding nature of fish
45.	Natural	food production in ponds co	ould be	enhanced by
	(A) (C)	Lime Fertilization	(B) (D)	Feeds Aeration
46.	Gynoge	enesis in common carp leads	to pro	duction of
	(A) (C)	all male population all sterile populations	(B) (D)	
47.	First su by	ccessful induced breeding o	f majo	r carps in India was achieved
	(A) (C)	Chaudhary and Alikunhi V.G. Jhingran	(B) (D)	4
48.	In Maci	robrachium rosenbergii, lar	val sta	ges are subdivided in to
	(A) (C)		(B) (D)	
19.	Solubili	ity of oxygen in water has is	nverse	relation with
	(A) (C)	Nitrogen Height	(B) (D)	
50.	Gas buł	oble disease is normally ass	sociate	d with super saturation of
v	(A) (C)	Carbon dioxide Oxygen	(B)	
51.	What fo	orm of lime is quick in its a	action	and efficiency?
	(A) (C)	Calcium carbonate Calcium hydroxide	(E (I	· ~ 11-11-

52	2. Base	Based on the breeding habit, gold fish is a				
	(A (C	Viviparous fish Oviparous fish	(B) (D)	Parthenogenesis fish Ovoviviparous		
53	. Harm	ful algal bloom is frequently	caused	by		
	(A) (C)) Chlorella) Spirogyra	(B) (D)	Euglena Microcystis		
54.	Seawe	eeds are				
	(A) (C)	Macro algae Terrestrial plants	(B) (D)	Microscopic algae Freshwater plants		
55. Hard substrates such as rocks or plates are required for settlement				required for settlement of		
	(A) (C)	Shrimp seed Echinoderm seed	(B) (D)	Lobster seed Mussel spat		
56.	Spawni	ing in oysters can be induced	d by risi	ng		
	(A) (C)	Turbidity Circulation	(B) (D)	Temperature Dissolved oxygen		
57.	Ulva la	ctuca is				
	(A) (C)	Agar yielding seaweed Edible seaweed	(B) (D)	Algino yielding seaweed All the above		
58.	Cultured	l pearls can be produced by	using			
		Pinctada fucata Patinopecten yessoensis	(B) (D)	Mutilus edulis All the above		
59.	Nacre in	pearl oysters is called as				
	` '	Gonad Mother of pearl	(B) (D)	Mantle Foot		

60.	The fas	The fastest growing edible oyster in India is				
	(A) (C)	Crossostrea cuculata Crossostrea madrasensis	(B) (D)	0.71		
61.	The cu	lture technique developed fo	r cultu	re of edible oysters in India		
	(A) (C)		(B) (D)	Raft culture Bottom culture		
62.	Marine	fish oil is rich in				
	(A) (B) (C) (D)		ids			
63.	Rainbo	w trout belongs to family				
	(A) (C)	Channidae Salmonidae	(B) (D)	Ictaluridae Cyprinidae		
64.	Incubat	ion period of Macrobrachiu	m rose	enbergii eggs is		
	. ,	9-10 days 19-21 days	(B) (D)	29-30 days 5-10 days		
65.	Pistia is	s a				
	(A) (C)	Emergent weed Floating weed	(B) (D)			
66.	Most pa	rt of fish seed for stocking	in pon	ds and tanks comes from		
	(A) (C)	Riverine collection Induced breeding	(B) (D)			

67	Which of the following is a migra	tory fish	?
	(A) Salmon (C) Tilapia	(B) (D)	Catla Sea bass
68.	Anguilla sp is commonly known a	ıs	
	(A) Herring (C) Mackerel	(B) (D)	Oil sardine Eel
69.	Which one is used for measurement	nt of ligh	nt penetration?
	(A) Nanson bottle(C) Secchi disc	(B) (D)	Peterson grab Oxygen meter
70.	Which fish is used for manufacture	e of best	quality fish meal?
	(A) Squid(C) Seer fish	(B) (D)	Carps Peruvian anchovies
71.	Which bacteria should not be four food?	nd in the	processed and exported sea
	(A) Lactobacillus (C) Nitrobactor	(B) (D)	Salmonella Azatobactor
72.	Best nursery grounds for brackishy	vater fisl	n and shrimps is
	(A) Open sea(C) Mangrove forest	(B) (D)	Coastal waters Rivers
73.	Free swimming organisms which a are	re under	the mercy of water currents
	(A) Crustaceans (C) Plankton	(B) (D)	Molluses Fish



74.	Name t	Name the instrument used for sampling of bottom sediments					
	(A) (C)	Nanson water bottle Peterson grab	(B) (D)	Secchi disc Plankton Net			
75.	Which	of the soil is ideal for fish cult	ture?				
		Sandy soil Loamy soil	(B) (D)	Clay soil Muddy soil			
76.	What is	the required water pH range	for ca	rp culture?			
		5-7 9-12	(B) (D)	7.5-9 3-6			
77.	Short te	erm preservation of fish can b	e don	e by			
		Drying Canning	(B) (D)				
78.	Yellow	head virus is specific to					
	(B) (C)	Penaeus indicus Penaeus monodon Macrobrachium rosenbergi Catla catla	i				
79.	Soon af	ter hatching shrimp nauplius	feeds	s on			
		Artemia nauplii Unicellular algae		Zooplankton Cladocerans			
80.	Identify	a floating weed.					
	(A) ¹ (C)	Azolla Colocasia		Nymphea Hydrilla			



01.	A chemical fermizer supplying both N and F				
,	(A (C) Urea) Diammonium phosphate	(B) (D)	Muriate of potash Ammoniun sulphate	
82.	Which	h is an ideal protein rich algae	?		
	(A) (C)		(B) (D)	Microcystis Spirogyra	
83.	Biofilt	ters bring about			
	(A) (C)	6	(B) (D)	Oxidation of ammonia Hydrolysis of ammonia	
84.	What i	s the major nitrogenous meta	bolite i	n the excretion of fish?	
٨	(A) (C)		(B) (D)	Ammonia Urea	
85.	Age of	fish can be determined by us	sing		
	(A) (C)	Gill rakers Fins	(B) (D)	Scales Blood count	
86.	Fish ab	sorb calcium through			
	(A) (C)	Skin Lateral line	(B) (D)	Gill Scales	
87.	Sea hor	se is a			
	(A) (C)	Marine ornamental fish Dolphin	(B) (D)	Horse living in sea Whale	
88.	Identify	the basic unit of heredity			
	(A) (C)	Bone marrow Ribosome	(B) (D)	DNA Chromosomes	

89.	Jelly fis	h is		
	(A) (C)	Fin fish Crustancean	(B) (D)	Coelenterate Mollusc
90.	Post sto	cking management of a carp	nurser	ry pond consists of
	(A) (C)	Artificial feeding Disease management	(B) (D)	Water quality management All the above
91.	Pearl sp	oot is the common name of		
	(A) (C)	Rastreliger canagurta Eutroplus surretensis	(B) (D)	Sardinella longiceps Peneaus monodon
92.	The mo	ost important hormones in are produced by	volve	d in the maturation of fish
	(A) (C)	Pituitary Brain	(B)	
93.	Which	of the following is an air bre	athin	g fish?
	(A) (C)	Gold fish Prawn	(B) (D)	
94.	Which predato	one is the toxicant used in	n the	eradication of weed fish and
	(A) (C)	Mahua oil cake Cotton seed cake	(B (D	
95.	The fol	lowing fish contain red me	at	
	(A) (C)	Catfish Tuna	(E (I	B) Pomfret D) Mackerel

96	. Shrin	Shrimps come under the group				
	(A (C) Pelagic) Oceanic	(B) (D)	Benthic Planktonic		
97.	High	High and low tides of the sea are synchronized by				
	(A) (C)	r	(B) (D)	•		
98.	Pokka	uli field culture is practiced in	the Sta	ate of		
		Karnataka West Bengal	(B) (D)			
99.	Agar a	gar is manufactured predomi	inantly	from		
		Fish meat Sea weeds	(B) (D)	Terrestrial plants Molluscs		
100.	Usual r	ate of lime application per he	ectare p	oond in carp culture is		
		<500 Kg 1500 Kg	(B) (D)	1000 Kg 2000 Kg		
101.	Cartilag	inous fishes are characterise	d by			
	(A) (C)	Homocercal tail Terminal mouth	(B) (D)	Heterocercal tail Ventral mouth		
102.	The teeth	n of shark are				
		Thecodont Homodont	(B) (D)	Pleurodont Heterodont		

103.	8. Mermaid purse is			
	(A) (B) (C) (D)	Egg case of skate fish Brood pouch of sea borne fis	sh	
104.	Bony p	late or scouts are present in		
		Anabas Hippocampus	(B) (D)	Scoliodon Synaptura
105.	Which	one of the following is a Cata	dromo	ous fish?
		Hilsa Salmon	(B) (D)	Anguilla Labeo
106.	Prehens	sile tail is found in		,
	(A) (C)	Rays Sea horse	(B) (D)	Sharks Flying fish
107.	Which o	one of the following is a scal	e less	fish?
		Amia Loricaria	(B) (D)	Labeo Scoliodon
108.	Intestine	e of fish is shorter in		
		Carnivores Sharks	(B) (D)	Herbivores Omnivores
109.	The rela	tion between shark and sucl	ker fis	sh is
		Phoresis Parasitism	(B) (D)	Commensalism Mutualism

110.	The ty	pe of Kidney in Sharks				
	(A) (C)		(B) (D)	Mesonephric Nephridial		
111.	Typhlo	osole of fish intestine is				
	(A) (C)	Lengthwise folds Transverse folds	(B) (D)	Finger like projections Spiral folds		
112.	In fish,	the oxygenated blood is sent	to all	body parts from		
	(A) (C)		(B) (D)	Ventricles Gills		
113.	Stomac	h is modified into grinding or	gan ir	n		
	(A) (C)	0	(B) (D)	Esox Scyllium		
114.	RBC of	fishes is generally				
	(A) (C)		(B) (D)	Oval and anucleated Round and anucleated		
115.	True ex	ternal gills are present in the	youn	g ones of		
	(A) (C)	Lepidosiran Periophthalmus	(B) (D)			
116.	Which of the following are absent in all fishes?					
	, ,	Nictitating membrane True eye lids	(B) (D)	to and the second secon		
117.	Telesco	pic eyes are present in				
		Zygena Idiacanthus	(B) (D)			

118.	In fishes legena is a part of				
	(A) (C)	Ice Inner ear	(B) (D)	Nasal sacs Taste organs	
119.	Access	ory respiratory organs, "labyr	inthin	e organs" are found in	
	(A) (C)	Clarius Heteropneustes	(B) (D)		
120.	Culturi	ng different species of fishes	in the	same pond is called	
	(A) (C)	Integrated fish culture Mixed Culture	(B) (D)	Composite fish culture Mono culture	
121.	Which	one of the following is an exc	otic ca	rp?	
	` ,	Labeo rohita Labeo kalabaru	(B) (D)	Cirrhinus mrigala Cyprinus carpio	
122.	Lernae	asis in fish is caused by			
	(A) (C)		(B) (D)	Copepods Digenea	
123.	One of the following is not fish by-product				
	(A) (C)	Ising glass Shagreen	(B) (D)		
124.	The male fish is parasitic on the female fish in				
	(A) (C)	Bitterling Echinus	(B) (D)	Photocorynus Protopterus	
125.	Migratio	on of fish is an example for			
	(A) (C)	Instinct behaviour Learning behaviour	(B) (D)		

126.	Cartilage of fishes is developed from embryonic					
	(A) (C)	Ectoderm Mesoderm	(B) (D)	Endodern Neuroderm		
127.	Which	of the following group consis	ts of a	ll extinct fishes?		
	(A) (C)	•	(B) (D)	Dipnoi Placodermi		
128.	The fi	sh culture in which the feed is	given	in a limited way is		
	(A) (C)		(B) (D)	Extensive culture Intensive culture		
129.	Tail ro	t disease is caused by				
	(A) (C)		(B) (D)	Bacteria Copepods		
130.	The He	ad office of CIFA is present	in			
	(A) (C)	Bhubaneswar Hyderabad	(B) (D)	Chennai Kochi		
131.	Argyro	pelecus, a deep sea fish is kn	own f	or its		
	(A) (C)	Parental care Mimicry	(B) (D)	Parasitism Bioluminiscence		
132.	The sca	les of polypterus are				
		Ganoid Cosmoid	(B) (D)			
133.	Electric	organs of fish are modified				
	,	Bone cells Scales	(B) (D)			

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134.	The fish	ish known as living fossil is				
	(A) (C)	Latimeria Protopterus	(B) (D)	Chimaera Pristis		
135.	"Golder	age of fishes"is the period of	of			
	(A) (C)	Devonian Pennsylvanian	(B) (D)	Cambrian Permian		
136.	Fish liv	er oil is rich in				
	, ,	Vitamin C Calcium	(B) (D)	Vitamin D Iron		
137.	Amphil	bian are evolved from the fis	shes of	the group		
	(A) (C)	Dipnoi Amioidea	(B) (D)	Osteolepids Apodes		
138.	Hag fis	hes resemble lampreys in ha	aving			
	(A) (B) (C) (D)	Direct development Absence of rays Single semicircular canal Eel like body without sca	les			
139.	Which	of the following is the scien	ntific	name of a lung fish?		
	(A) (C)	Batrachus	(F (I	O) Cynoglossus		
140.	The pe	eriodic, predictable rise and	l fall o	of sea level over a given time of		
	(A) (C)		,	B) Wave D) Tsunami		
		9				

141. The organisms living at the bottom of the sea are called as				
(A) Benthos (C) Pelagic	(B) Nekton(D) Plankton			
142. Primary producers are				
(A) Zooplankton(C) Phytoplankton	(B) Aquatic plants(D) Benthic organisms			
143. The cleaning behavior of a small fi	sh to big fish is often seen in			
(A) Deep sea fish(C) Nekton	(B) Coral reef fishes(D) Estuarine fishes			
144. Mud skipper occurs in				
(A) Deep sea bottoms(C) Mangroves	(B) Intertidal zones(D) Muddy shores			
145. Ammocoetus is the larva of				
(A) Myxine(C) Cephalaspis	(B) Bdellostoma(D) Petromyzon			
146. Air bladder is completely absent in				
(A) Teleosts (C) Dipnoi	(B) Elasmobranchs(D) Coelacanths			
147. Ising glass is obtained from fish's				
(A) Skin(C) Air bladder	(B) Fins (D) Tail			
148. Hilsa ilisha belongs to				
(A) Cypriniformes(C) Clupeiformes	(B) Anguilliformes(D) Cyprinodontiformes			



- 149. Head is asymmetrical in
 - (A) Flying fish

(B) Fresh water Eels

(C) Puffer fish

- (D) Flat fishes
- 150. Parental care exhibited by Tilapia is by
 - (A) Nest building
 - (B) Mouth brooding
 - (C) Coiling round the egg mass
 - (D) Carrying eggs on its body
