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60812		
ROLL No.		
	TEST BOOKLET No.	105

TEST FOR POST GRADUATE PROGRAMMES

FISHERIES

Time: 2 Hours Maximum Marks: 450

INSTRUCTIONS TO CANDIDATES

- 1. 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. Please do your rough work only on the space provided for it 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 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.	Бу-са	uch of fishing boats comprises of	•	
	(C)	caught target fish caught shrimps caught low value fish and disc recovered fish	carded	into sea
2.	Which	n organisation is involved in off s	hore i	narine fish stock assessment?
	(B)	ICAR Mangalore Fisheries College Fishery Survey of India Central Inland Fisheries Resea	rch In	stitute
3.	Which	is the maritime state?		
		Assam West Bengal	(B) (D)	.
4.	Which	one is an ornamental fish?		
	(A) (C)	-	(B) (D)	-
5.	Which	state is more popular for eating f	resh v	vater carps?
	(A) (C)		(B) (D)	
6.	Longes	t brackish water lake in India is		
	(A) (C)	Chilka Hoogly estuary	(B) (D)	Govind Sagar Methur dam
7.	Central	Institute of Fisheries Technolog	y is lo	cated at
	(A) (C)	Bangalore Chennai	(B) (D)	Cochin Mumbai



8.	Icing gla	ass is prepared from		
	(A) (C)	-	(B) (D)	fish eggs fish air bladder
9.	Which i	ngredient is used in poultry feed	manu	facture?
		Rice Fish meal	(B) (D)	Fish protein concentrate Fish sausage
10.	Which o	one is mostly exported to oversea	s mar	ket?
	(A) (C)	Catfish Pomfrets	(B) (D)	Carps Shrimps
11.	Which i	is the Oceanic fish?		
		Pearl spot Prawn	(B) (D)	Tuna Ladyfish
12.	Which	one is not a fish?		
	(A) (C)	Jelly fish Lady fish	(B) (D)	Seer fish White bait
13.	Which	water body is under-utilised in In	dia?	
	(A) (C)	Tanks	(B) (D)	
14.	Deep se	ea fishing is mostly carried out by	7	
	(A) (C)		(I (I	B) private boats D) Government of India boats
15.	Where	the first Fisheries College in Indi	a was	s established and functioning?
	(A) (C)	Tuticorin Ratnagiri	(B) (D)	Panangad, Kochi Mangalore



16.	Which organisation is responsibl markets?	e for promotion of sea foods for overseas
	(A) State Government(C) Agriculture Universities	(B) Department of Biotechnology(D) MPEDA
17.	Central Institute for Freshwater A	quaculture (CIFA) is located at
	(A) Chennai(C) Bhubaneshwar	(B) West Bengal(D) Mangalore
18.	Largest Sewage fed fish farm is loo	eated at
	(A) Vembanad lake(C) Narmad estuary	(B) Godavary estuary(D) Hoogly-Mutla estuary
19.	Building blocks of protein molecul	es are
	(A) fatty acids(C) vitamins	(B) amino acids(D) lipoproteins
20.	Rich source of Vitamin A is	·
	(A) fish muscle(C) shark skin	(B) pituitary glands(D) cod liver oil
21.	What is the salinity of standard sea	water?
	(A) 15 ppt (C) 66 ppt	(B) 35 ppt (D) 100 ppt
22.	In integrated fish farming the follow	ving one is most popular
	(A) ducks (C) camel	(B) sheep (D) goats
23.	Pokkali field culture is practiced in	he state of
	(A) Karnataka(C) West Bengal	(B) Tamil Nadu(D) Kerala



24. In aquaculture production point of view, findia ranks			latiks	
	(A) (C)		(B) (D)	fourth second
25.	Lobster	rs belong to		
		mollusca crustacea	. ,	ehinodermata ceolenterates
26.	Agar ag	ar is manufactured predominantl	y fron	n
	(A) (C)	fish meat sea weeds		terrestrial plants molluscs
27.	Seawee	ds are good source in the manufa	cture	of
		fish protein concentrate Vitamin A		pharmaceuticals fatty acids
28.	Commo	on refrigerant used in the plate fro	ezing	; is
		CO ₂ . Freon	(B) (D)	NO ₂ H ₂ SO ₄
29.	Ocean 1	Pearls were usually collected by		
		boating pumping seawater	(B) (D)	hook and line diving
30.	Heavy	nutrient influx and over fertilizat	ion in	a lake is referred as
		eutrophication limnophilic	(B) (D)	putrification oxidation
31.	Degrad	ation of ammonia in to nitrate in	water	is carried out in
	(A) (C)	chemical reactors biofiltration	(B) (D)	asphyxiation mechanical filtration



32.	The predominant compound/mineral present in sea water is				
		MnSO ₄ Mg	(B) (D)	CaCO ₃ NaCl	
33.	Pearl s	pot (<i>Etroplus surratensis</i>) is a		•	
		oceanic fish brackishwater fish		freshwater fish deep sea fish	
34.	Comm	on name for freshwater prawn M	acrobi	rachium rosenbergii is	
	(A) (C)	cod scampi	(B) (D)	rock perch mullet	
35.	Centre	of Advanced Study in Marine Bi	ology	in Parangipettai comes under	
	(B) (C)	Madras University Kerala University Annamalai University Cochin University of Science as	nd Teo	chnology	
36.	Gulf St	ream is a			
	(A) (C)	river ocean current	(B) (D)	glazier cold water stream	
37.	Marine	ornamental fish are abundant in			
		Gulf of Mannar Lakshadweep		Gulf of Kutch Chilka lake	
38.	There is because	always a low level of principal	l nutri	ents in surface water of the sea	
	 (A) animals absorb them during respiration (B) regeneration is very slow (C) plants absorb them during photosynthesis (D) mixing due to water current 				



39.	Long elevation of the deep sea floor with steep sides and irregular topography is called				
		ridge plateau	(B) (D)	rise trenches	
40.	Sedimer are	nts in any area of the sea bed w	hen tl	ne overlying waters are stagnant	
		black yellow	(B) (D)	white brown	
41.	Quick n	naturation in penaeid shrimps is	achiev	ved by	
	(A) (C)	removal of legs ablation of telson	(B) (D)	eye stalk ablation ablation of chelepeds	
42.	First su	ccessful induced breeding of ma	jor car	rps in India was achieved by	
	(A) (C)	Chaudhary and Alikunhi V.G. Jhingran	(B) (D)		
43.	Maxim	um freshwater aquaculture produ	iction	comes from	
		salmons carps ;	(B) (D)		
44.	Neluml	bo is a			
	(A) (C)	marginal weed emergent weed	(B) (D)		
45.	Usual 1	rate of lime application per hecta	re por	nd in carp culture is	
	(A) (C)	< 500 Kg 1500 Kg	(B) (D)		
46.	The go	onadotropins are produced in			
		hypothalamus gonads	(B) (D)		



47.	Most preferred food of spawn of Indian major carp is				
	(A) (C)) artificial food) zooplankton	(B) (D)		
48.	Qualit	ry of feed is judged by			
	(A) (C)	FCR size of fish	(B) (D)		
49.	Natura	al food production in ponds could	l be en	hanced by	
	(A) (C)		(B) (D)		
50.	The ab	oundant marine fish in the coastal	areas	of Konkan coast is	
		Bombay duck fish polynemids	(B) (D)		
51.	Fish ea	ting helps to			
		increase risk of cardiac arrest decrease risk of cardiac arrest	(B) (D)		
52.	Limited	d amount of crude protein in fish	feed i	S	
	(A) (C)	useful not required	(B) (D)		
53.	Solubil	ity of oxygen in water has invers	e relat	ion with	
	(A) (C)	nitrogen height	(B) (D)	temperature pH	
54.	Gas but	oble disease is normally associate	ed with	n super saturation of	
	(A) (C)	carbon dioxide oxygen	(B) (D)	nitrous oxide ammonia	



55.	White spot disease of penaeid shrimps is caused by			
	(A) (C)	virus fungus	(B) (D)	
56.	What fo	rm of lime is quick in its action	and ef	ficiency?
	(A) (C)	Calcium carbonate Calcium hydroxide	(B) (D)	
57.	The cult	ture technique developed for cul	ture of	edible oysters in India is
		rack and tray long line culture	(B) (D)	pen culture bottom culture
58.	Seawee	ds are		
		macro algae unwanted aquatic plants	(B) (D)	
59.	India ha	s rich seaweed resources in		
	(A) (C)	Lakshadweep Andhra Pradesh	(B) (D)	Karnataka Goa
60.	Hard su	bstrates such as rocks or plates	are req	puired for settlement of
		shrimp seed echinoderm seed	(B) (D)	
61.	Spawni	ng in oysters can be induced by	rising	
	(A) (C)	turbidity circulation	(B) (D)	
62.	Ulva la	ectuca is		
	(A) (C)	agar yielding seaweed edible seaweed	(B) (D)	



63.	Cultured pearls can be produced by	using
	(A) Pinctada fucata(C) Patinopecten yessoensis	(B) Mytilus edulis(D) All of the above
64.	Nacre in pearl oysters is called as	•
	(A) gonad(C) mother of pearl	(B) mantle (D) foot
65.	The fastest growing edible oyster in	India is
	(A) Crossostrea cuculata(C) Crossostrea madrasensis	(B) Crossostrea gryphoides(D) Ostrea edulis
66.	Based on the breeding habit, gold fis	h is a
	(A) viviparous fish(C) oviparous fish	(B) parthenogenesis fish(D) none of the above
67.	The group of molluscs listed under C	CITES is
÷	(A) green mussels(C) giant clams	(B) pearl oysters(D) flat oysters
68.	Which of the following plants is a bid	ofertilizing agent?
	(A) Azolla (C) Pistia	(B) Eichorina (D) Lemna
69.	Pistia is	
	(A) an emergent weed(C) a floating weed	(B) a submerged weed(D) a marginal weed
70.	Most part of fish seed for stocking in	ponds and tanks comes from
	(A) riverine collection(C) induced breeding	(B) bund breeding(D) reservoir collection



71.	Which	one is a migratory fish?		
	, ,	Salmon Tilapia	(B) (D)	Catla Sea bass
72.	Anguill	a sp. is commonly known as		
		herring mackerel	(B) (D)	oil sardine eel
73.	Which	one is commonly used for the me	asure	ment of light penetration?
		Nanson botle Secchi disc		Peterson grab Oxygen meter
74.	Which	fish is used for the manufacture of	f best	qualify fish meal?
		Squid Seer fish	(B) (D)	Carps Peruvian anchovies
75.	Which	bacteria should not be found in th	ne pro	cessed and exported sea food?
		Lactobacillus Nitrobactor		Salmonella Azatobactor
76.	Best nu	rsery grounds for brackishwater	fish ar	nd shrimps is
		open sea mangrove forest		coastal waters rivers
77.	Free sw	rimming organisms which are un	der th	e mercy of water currents
		crustaceans plankton		molluscs fish
78.	This ins	strument is used for sampling of	botton	n sediments
	(A) (C)	_		secchi disc plankton net



79.	Critical element in aquatic production is				
	(A) nitrogen (C) calcium	(B) phosphorous (D) carbon			
80.	Which of the soil is ideal for fish	culture?			
	(A) Sandy soil(C) Loamy soil	(B) Clay soil (D) Muddy soil			
81.	Required water pH range for carp	culture			
	(A) 5–7 (C) 9–12	(B) 7–9 (D) 3–6			
82.	Short term preservation of fish car	n be done by			
	(A) drying (C) canning	(B) icing (D) smoking			
83.	Which determines specificity in D	NA hybridization?			
	(A) pH (C) Alkalinity	(B) Temperature(D) Dissolved oxygen			
84.	Soon after hatching shrimp naupliu	s feeds on			
	(A) Artemia nauplii (C) unicellular algae	(B) zooplankton(D) cladocerans			
85.	Rainbow trout belongs to the family	y			
	(A) Channidae (C) Salmonidae	(B) Ictaluridae (D) Cyprinidae			
86.	An ideal protein rich algae is				
	(A) spirulina (C) euglena	(B) microcystis (D) spirogyra			



87.	Biofilters work by			
	(A) (C)	_	(B) (D)	
88.	Major n	itrogenous metabolite in the excr	etion	of fish is
		creatinine uric acid	(B) (D)	ammonia urea
89.	Age of	fish can be determined by using		
	(A) (C)	gill rakers fins	(B) (D)	
90.	Yellow	head virus is specific to		
	(A) (C)	Penaeus indicus Macrobrachium rosenbergii	(B) (D)	Penaeus monodon All of the above
91.	Sea hor	se is		
		marine ornamental fish dolphin	(B) (D)	
92.	Basic u	mit of heredity is		
	` '	bone marrow ribosome	(B) (D)	DNA chromosomes
93.	Jelly fi	sh is		
	(A) (C)	fin fish crustancean	(B) (D)	
94.	Coral r	eef fishes are abundant around		
	(A) (C)	Lakshadweep Orissa coast	(B) (D)	



95.	The most important hormones in produced by	avolved in maturation of fish gonads are
	(A) pituitary(C) brain	(B) liver (D) thyroid
96.	Which is an air breathing fish?	
	(A) Gold fish (C) Prawn	(B) Anabas testudineus(D) Carp
97.	Phosphorous content is more in	
	(A) poultry manure(C) pig manure	(B) cow dung (D) sheep manure
98.	Which one is the toxicant used in the fish?	he eradication of weed fish and predatory
	(A) Mahua oil cake(C) Cotton seed cake	(B) Ground nut oil cake(D) Rice bran
99.	Which of the following fish contains	red meat?
	(A) Catfish (C) Tuna	(B) Pomfret (D) Mackerel
100.	Pearl spot is the common name of	
	(A) Rastreliger canagirta(C) Eutroplus surretensis	(B) Sardinella longiceps(D) Sardinella jonsii
101.	Pangasiusis a	
	(A) cat fish (C) carp	(B) murrel(D) None of the above
102.	The location of thyroid gland in teleos	t fishes
	(A) ventral aorta(C) kidney	(B) heart (D) spleen



103.	Neuromast cells in fishes are associated with					
	(A) (C)	nervous system skeletal system	(B) (D)	lateral line system muscular system		
104.	, ,	In fishes, from which tissue electric organs originate?				
10		-,				
	(A) (C)	Liver tissue Muscle fibre	(B) (D)	Head organ Skin		
105.	Branchi	omycosis is a				
		systemic disease gill disease	(B) (D)	skin disease fin rot		
106.	The tec	hnique of ablation involves				
	(A) (C)	removal of eye and eye stalk removal of only eyestalks	(B) (D)	removal of kidneys removal of only eyes		
107.	The fol	lowing is known as banana shri	mp			
		P. monodon P. merguiensis	(B) (D)	P. indicus P. semisulcatus		
108.	The scientific name of giant fresh water prawn is					
	(A) (C)	Macrobrachiumacanthurus Macrobrachiumcarcinus	(B) (D)	1 1:		
109.	P. mor	nodon is a species				
	(A) (C)	stenohaline freshwateer	(B) (D)			
110.	Koller	u Lake is a				
	(A) (C)		(B) (D)	6.1 -1		
111.	The co	ommon name of Harpadon is				
) mackerel) trout	(B) (D)	• 1 .1		



112.	Commercially important species of Sole belongs to the genus					
	(A) Solea(C) Cynoglossus	(B) Psedorhombus(D) Psettodes				
113.	In natural waters the fish can withstand sudden temperature changes for short duration without any problem. It is called					
	(A) thermal adaptability(C) thermal withstander					
114.	Monoculture is commonly pr	racticed for culturing				
	(A) carps(C) trouts	(B) catfishes (D) tilapia				
115.	Monosex culture is practiced	in the case of				
	(A) tilapia (C) clarias	(B) catla (D) channa				
116.	The common name of Myxin	e				
	(A) lamprey(C) saw- fish	(B) dog-fish (D) hag-fish				
117.	Fishes belonging to Holoceph	ali are				
	(A) fresh water(C) marine water	(B) brackish water(D) none of the above				
118.	The scientific name of grey m	ullet is				
	(A) Etroplussuratensis(C) Liza macrolepis	(B) Mugiltade (D) Mugilcephalus				
119.	The common name of Lates co	alcarifer				
	(A) sea lion(C) milk fish	(B) sea bass(D) ribbon fish				



120.	Which of the following are known as hardy fish?			
		Murrels Carps	(B) (D)	Mullets Catfishes
121.	What is	the limit of EEZ?		
	(A) (C)	300 nautical miles 50 nautical miles	(B) (D)	
122.	Spawni	ng can be artificially induced by	7	
•	(A) (C)	drugs hypophysation	(B) (D)	chemicals cryopreservation
123.	Spawni	ing is influenced by		
		organic matter salinity	(B) (D)	pH temperature
124.	Hapas	are used for		
	(A) (C)	hatching eggs collecting eggs	(B) (D)	spawning None of the above
125.	Sonar	is a kind of instrument used to d	letect	
	(A) (C)	ships fishes	(B) (D)	boats None of the above
126.	Long 1	term preservation of gametes is	achieve	ed by
	(A) (C)	preservation in formalin free drying	(B) (D)	cryopreservation air drying
127.	Mascı	ulinisation can be induced by		
	(A (C) oestrogen) oestroidol	(B) (D)	•



128.	Treatment of fish with salt is known as			
		brining canning	(B) (D)	•
129.	Highes	t content of Vitamin A is seen in	the li	iver of
	` '	cod fishes heilibuts	(B) (D)	
130.	In fish,	high protein content is present i	n	
		muscle liver	(B) (D)	
131.	The pH	in acid sulphate soils is		
	(A) (C)		(B) (D)	
132.	What is commonly used as a green manure in pond fertilisation?			
		Leguminosa plants Artemia		Chlorella Spirulina
133.	Which fishery is represented by a single species?			
		Sole fishery Mackerel fishery	(B) (D)	Bombayduck fishery Sardine fishery
134.	Sea wee	d culture is done at		
		Madapam, CMFRI CEFA, Bhubaneswar		CIBA, Chennai CIFE, Mumbai
135.	Gelidium micropterum is used in the manufacture of			ure of
	` '	iodine bags	(B) (D)	agar coir ropes



136.	Which chemical is used for preserving pituitary gland extract?			
		Formalin Glycerine	(B) (D)	
137.	Bheri cı	ılture is common in		
		Andhra Pradesh Orissa	(B) (D)	West Bengal Kerala
138.	Narakka	al in Kerala is famous for the cul	ture o	f
	(A) (C)		(B) (D)	carps murrels
139.	Cross B	reeding results in		·
	(A) (C)	Drop in Viability Infertility	(B) (D)	Hybrid Vogour Homogygosity
140.	Which	of the following is used as a disi	nfecta	nt to treat ponds?
	(A) (C)	Iodophores Bleaching powder	(B) (D)	
141.	Argulo	sis is caused by		
	(A) (C)	dactylogyrus diplostomus	(B) (D)	
142.	The go	lden anchovy is		
	(A) (C)	Coilia dussumeri Hilsai lisha	(B) (D)	Coilia ramcarti Stolephorus indicus
143.	Corslet	t in tunas is		
	(A) (C)	respiratory system arrangement of scales	(B) (D)	



144.	Sauria	la tumbil is		
	(A) (C)	lizard fish sardine	(B) (D)	•
145.	Sand le	obster is		
		Thenus orientalis Penacus monodon	(B) (D)	1 21 8
146.	Antarct	tic krill is		
	(A) (C)	deep water prawn euphasiid	(B) (D)	rock lobster pelagic crab
147.	The inc	rease in concentration of a polis	llutant i	from one link in a food chain to
	(A) (C)	bio-accumulation bio-synthesis		bio-magnification None of the above
148.	The phy	siological reaction of organism	s to the	length of day or night is
		photo accumulation photoperiodism		photo magnification None of the above
149.	Adminis infection	tration of medication for the is	purpo	ose of preventing deceases or
		chemotherapy chemoreception		chemoprophylaxis chemotoxis
150.	Reproduc	ctive behaviour of Etroplus sure	atensis i	indicates that it is
	: . : · ·	protandric nonogamous		protogynic polygamous
