COMPUTER BASED TEST-2023

PAPER - I FISHERIES TECHNOLOGY AND NAVIGATION (DIPLOMA STANDARD)

- 1. Which of the following statement is true about Turtle Excluder Device (TED) in many trophical and subtrophical shrimp fisheries?
 - (A) The TED was first developed in 1960s
 - (B) The TED was first developed in 1950s
 - The TED was first developed in 1970s
 - (D) The TED was first developed in 1940s
 - (E) Answer not known
- 2. Choose the right match:

1. Quantitative Restrictions – QRs.

2. World Trade Organisation – WTO

3. General Agreement on trade and tariffs - GATT

4. Trade Related Intellectual Measures - TRIMS

(B) 2 and 3

(C) 2 and 4 (D) 3 and 4

(E) Answer not known

- 3. Business economics uses economic theory to solve
 - (A) Public finance and distribution problems
 - (B) Consumers problems

Business decision making problems

- (D) Input supply problems
- (E) Answer not known

4.	Mat	ch th	ne follo	wing:		
	(a)	ICA	AR		1.	Kochi
	(b)	NB	FGR		2.	Rome
	(c)	CII	T		3.	New Delhi
	(d)	FA	O		4.	Lucknow
		(a)	(b)	(c)	(d)	
	(A)	1	2	3	4	
	(B)	4	1	2	3	
	40	3	4	1	2	
•	(D)	2	3	. 4	1	•
	(E)	An	swer n	ot kno	wn	
5.			_			aplemented the development of freshwater water aquaculture?
	4	FF	DA			(B) NCDC
	(C)	CII	FT			(D) GPS
	(E)	An	swer n	ot kno	wn	
6.				— is	an	inter governmental organization mandated to
			_			ong member countries for sustainable coastald management in the Bay of Bengal region.
	(1)	BO	BP			(B) NAFO
	(C)	SE	AFDE	C		(D) IMO
	(E)	An	swer n	ot kno	wn	

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7.	Which among the following statements are true about mechanised sector?							
	(i)	Growth rate of trawlers is increasing at a slower rate						
	(ii)	Displayed a major boom during 1980 and 1990						
	(iii)	Boats with oal of 15 m and above are not suited for multiday fishing						
	(iv)) Increasing trend of mechanized boats phased out Non-mechanise units atleast in certain regions						
	(A)	(i) and (ii)	(3)	(ii) and (iv)				
	(C)	(iii) and (iv)	(D)	(i) and (iii)				
	(E)	Answer not known						
8.		gone from the next best altern Social cost Opportunity cost Answer not known		he value of return sacrificed of ctivity? Establishment cost Deflated cost				
9.	Exp	and RAWE:						
	(A)	Rural Agricultural Work Ex	perience	9				
	(B)	Rural Awareness Work Exp	erience					
	(C)	Regional Aquaculture Work	Enterp	rise				
	(D)	Regional Agricultural Wome	en Empo	owerment				
	(E)	Answer not known						

10.	and			tion are three commonly made errors			
	(A)	intelligent	7	B) ignorant			
	(C)	selfish	(D) important			
	(E)	Answer not known					
11.		ch of the following serves as pitor?	s An	giotensin Converting Enzyme (ACE)			
	41)	Peptide	()	B) EPA			
•	(C)	Collagen	(D) Chitin ·			
	(E)	Answer not known					
12.	Whic	ch of the following is incorrec	tly p	paired?			
	(i)	SFC - State Finance Cooper	rativ	es of India			
	(ii)	NCDC - National Cooperation					
	(iii)						
	(iv)	IFCI – Industrial Financial	Cor	poration of India			
	(A)	(i) and (iii)	(B)	(i) and (ii)			
	(C)	(ii) and (iii)	(D)	(iii) and (iv)			
	(E)	Answer not known					

13.		sider the following statements about the malpe fisher womens' erative society limited.						
	(A) Based at Mysore, Karnataka							
•	(B)	Assistance with the sale and purchase of salt						
	(C)	Registered as a cooperative in 1978						
	(D)	Non – Access to housing loan						
	(E)	Answer not known						
14.		Apex level National Cooperative Federation – FISHCOP FED is stered during 1980 in						
		New Delhi (B) Mumbai						
	(C)	Kolkata (D) Chennai						
	(E)	Answer not known						
15.	Iden	ntify the major problems faced by experters:						
	(i)	Shortage of raw materials						
	(ii)	Unhygienic landing centre and fishing ports						
	(iii)	Identification of buyer with integrity						
	(iv)	High Tariff						
	(A)	(i) only						
	(B)	(i) and (ii) only						
	LE)	(i), (ii), (iii) only						
	(D)	(iv) only						
	(E)	Answer not known						

- 16. Suppose the demand equation is given by Qd = 1000 P and supply equation is given by Qs = 100 + 4P. Find the equilibrium price.
 (A) P = 160
 (B) P = 180
 - (A) P = 160 (B) P = 18
 - (C) P = 170 (D) P = 200 (E) Answer not known
- 17. Which signifies the aggregate of real productive resources absorbed in the
- production of fishery products?

 (A) Opportunity cost

 (B) Junk cost
 - Real cost (D) Money cost
 - (E) Answer not known
- 18. The demand for the product is considered to be elastic when the absolute value of price elasticity is
 - (B) <1 (C) =1 (D) =0
 - (E) Answer not known
- - (A) medium
 (B) highly
 (C) low
 (D) no
 - (E) Answer not known

20.	. Consider the following statements about cost concept.								
	(A)	Explicit costs are self owned	cost						
	(B)	Variable cost does not vary with the variation of output							
	(C)	Fixed cost vary with the variation of output							
	(1)	Average cost is the cost of pr	roducing	a single unit					
	(E)	Answer not known							
21.	The	cost which a producer spends	towards	production process are called as					
	(A)	Opportunity cost	(B)	Money cost					
	(C)	Fixed cost .	. (D)	Variable cost .					
	(E)	Answer not known							
22.	2. The vertical distance between the moulded base line and top of the bean of upper most continuous deck is termed as								
	(A)	Waterline	` `_	Load waterline					
	(C)	Draft draught	(D)	Depth					
	(E)	Answer not known							
23.	Cata	lyst is used in the construction	on of boa	t with					
	(A)	Wood	(B)	Steel					
	40)	FRP	(D)	Aluminium					
	(E)	Answer not known							
24.	The	weight displacement of a boa	t is desig	gnated by the symbol					
	(A)	Triangle	(B)	Inverted Triangle					
	(C)	Round	(D)	Square					
	(E)	Answer not known							
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25.	The light ship weight of a steel boat and mat of equivalent size of wooder boat								
	(A)	will not differ significantly	(B)	will differ significantly					
	(C)	will remain same		can not be compared					
	(E)	Answer not known							
26.	Skin	of the steel boat hull is							
	(A)	Planking	(B)	Plating					
	(C)	Framing	(D)	Caulking					
	(E)	Answer not known .							
27.	Choo	se the right answer among type		•					
	Which of the following statements are true about stability of fisl vessels?								
	(i)]	Permanent Transverse inclinatio	n is	called as Trim.					
	(ii)	Femporary Transverse inclination	n of	the boat is called as Heel.					
		Fransverse Oscillation of the boa							
		Longitudinal Oscillation is called							
	(A)	(i) only	(B)	(iii) only					
		(ii) and (iv) only	` '	(i) and (iii) only					
	(E)	Answer not known	(D)	(i) and (iii) only					
28.	The v	width of the ship at the widest po	int i	s called					
	(A)	Trim	(B)	Camber					
	(C)	Fender	AN OF	Beam					
	(E)	Answer not known	` '						

Fisheries Technology and Navigation Engineering

29.	. If the propeller is overloaded it may lead to erosion of blades called					
	(A)	Slip		,	(B)	Cavitation
	(C)	Speed of advance			(D)	Pitch
	(E)	Answer not know	n			
30.		additional weight imetre is called	req	uired to i	mme	nerse the ship by an additional
	(A)	Trim			(B)	List
	(C)	Pitching		•	(1)	TPC
	(E)	Answer not know	n	_		
·		•				
31.						ge used for the treatment of fisher the rightly matched type.
	1.	CuSO ₄	_	1:2000 sc	oln	
	2.	Tetramycine	_	7.5 g		
	3.	Acriflavin	_	7 g		
	4.	Dipterex	_	0.25 ppm		
	(A)	1 and 3 are correc	ct			
	(D)	1 only				
	(C)	2 and 3 are correc	ct	•		
	(D)	3 and 4 are correc	ct			
	(E)	Answer not know	'n			
32.	The	ideal fishing gear	to car	rryout the	fishe	nery resource survey is
	(11)	Demersal trawl n	et		(B)	Gill net
	(C)	Long line			(D)	Purse seine
	(E)	Answer not know	'n			
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33.	Choose the right matches among type:						
	1.	Wedged - Held tightly by a mesh around the body.					
	2.	Gilled - Mesh caught behind the gill cover.					
	3.	Tangled - Held tightly by a mouth region.					
	4.	Snagged - Held in the maxilla	aries.				
	(A)	1 and 3 are correct	(B) 1 and 2 are correct				
	(C)	2 and 3 are correct	(D) 3 and 4 are correct				
	(E)	Answer not known					
34.	In these nets, the fish are surrounded from sides and from below:						
	(i)	Purse Seine					
	(ii)	Lambaranet					
	(iii)	Beach Seine	_				
	(A)	(i) only	(B) (i) and (ii) only				
	(C)	(i) and (iii) only	(D) (ii) and (iii) only				
	(E)	Answer not known					
35.	Whi	ch of the following is used to prev	ent twisting and kinking of lines?				
	(A)	Thimble	(B) Shackle				
	(0)	Swivel	(D) Hook				
	(E)	Answer not known					

36.	The most suitable type of otter board for one boat midwater trawling is								
	(A)	Rectangular flat otter board							
	(B)	Rectangular vertically curved otter board							
	(C)	Oval otter board							
	(D)	Vee type otter board							
	(E)	Answer not known							
37.	The	direction of twist of twine and ro	pe is	designated by the symbols					
		S and Z	(B)	N and T					
	(C)	K and M .	(D)	A and B \cdot					
	(E)	Answer not known							
38.	The	devices which give horizontal ope	ening	g to the trawl net are called					
	(A)	Kelley's eye	(B)	Wings					
	(0)	Otter boards	(D)	Flappers					
	(E)	Answer not known							
39.	Alur abou		ishin	g nets at a maximum depth of					
	(11)	70 metres	(B)	200 metres					
	(C)	300 metres	(D)	250 metres					
	(E)	Answer not known							

40.). The forward extension of netting on both side of trawl mouth for guiding the fish towards the bag of the net are called as				
	(A)	Quarters		(B)	Jibs
	(2)	Wings		(D)	Side Panels
	(E)	Answer not known			
41.	Choo	se the right fibre typ	e and their s	sour	ce of origin:
	1.	Seed fibre –	Cotton		
	2.	Bast fibre –	Jute		
	3.	Leaf fibre –	Indian Hen	np	
	4.	Fruit fibre –	Sisal		
	(11)	1 and 2		(B)	2 and 3
	(C)	1 and 3		(D)	3 and 4
	(E)	Answer not known			
42.	The s	aquatic plant that u	sed as a nit	roge	nous biofertilizer in aquaculture
	(A)	Eichornia sp		(B)	Lemna sp
	(6)	<u>Azolla</u> sp		(D)	<u>Pistia</u> sp
	(E)	Answer not known			
43.	Gold	fish have this mode/f	feature of re	prod	uction
	(A)	Live true bearer		(B)	Egg – layer
	(C)	Ovo – viviparous		(D)	Sterile
	(E)	Answer not known			

44.	This	is an aquatic plant		
	(A)	Vallisneria sp.	(B)	Euterpina sp.
	(C)	Brachydanio sp.	(D)	Colisa sp.
	(E)	Answer not known		
45.	In Co	ostiasis, heavy infestation is du	ie to th	ne parasite of the genus.
	(A)	Castia		WSSV
	(21)	Costia	` ,	Infusoria
,	(E)	Answer not known	(2)	<u></u>
46.	Sprin	ng Viremia of Carp (SVC) is cau	used by	у
	(A)	Rhabdo virus of carp	(B) R	theo virus
	(C)	White spot virus	(D) L	ymphocystis
	(E)	Answer not known		
47.	Aero	monas Hydrophila, a bacterial	pathog	gen causes this condition in fish.
	(A)	Haemorrhage	(B)	Red mouth disease
	(0)	Dropsy	(D)	Furunculosis
	(E)	Answer not known		
48.	Lack	of oxygen in water causes ——		——— in fishes.
		Nitrite poisoning	(B)	Sulphide poisoning
	(C)	Asphyxiation	(D)	Ammonia poisoning
	(E)	Answer not known	. ,	-

- 49. The pH of the soil which is considered to be the most productive for fish culture is
 - (A) 7.5 8.0

(B) 6.5 - 7.0

(C) 8.5 - 9.0

(D) 5.5 - 6.0

- (E) Answer not known
- 50. During the purification of water, if chlorine is applied beyond the stage of break point, then the water is called as
 - (A) Double Chlorinated
- (B) Super Chlorinated

(C) Post Chlorinated

- (D) Pre Chlorinated
- (E) Answer not known
- 51. What is 'Daphnia'?
 - (A) It is a bottom feeder, filtration can reach a rate of 100% of the volume per day.
 - (B) It is a bottom feeder, filtration can reach a rate of 50% of the volume per day.
 - (C) It is a filter feeder, filtration can reach a rate of 50% of the volume per day.
 - It is a filter feeder, filtration can reach a rate of 100% of the volume per day.
 - (E) Answer not known
- 52. Which of the following is blue green algae?
 - (A) <u>Trichodesmium</u> sp
- (B) Ceratium sp

(C) Peridinium sp

(D) Prorocentrum sp

(E) Answer not known

53.	3. The dosage of cow dung usage as organic fertilizer in fish ponds is			
	(A)	2000 – 3000 kg/ha	(B)	5000 – 15,000 kg/ha
	(C)	1000 – 2000 kg/ha	(D)	16,000 – 20,000 kg/ha
	(E)	Answer not known		
54.	Zoop	lankters that exhibit the diurnal	mov	rement
	(A)	Rotifera	(B)	Difflugia
	(C)	Oscillatoria	(D)	Cladocera
	(E)	Answer not known		
55.	Chai	nos Chanos is popularly known as	3	•
	(A)	Grey fish	(B)	Brown fish
	(0)	Milk fish	(D)	Black fish
	(E)	Answer not known		
56.		imum holding time under chil ous fish species are	led	condition prior to freezing for
	(A)	Cod: 3 days; Haddock: 2 days;	Herr	ring : 1 day; Hake : 1 day
	(B)	Cod: 2 days; Haddock: 3 days;	Herr	ing : 1 day; Hake : 2 days
	(C)	Cod: 1 day; Haddock: 1 day; He	errin	g : 2 days; Hake : 3 days
	(D)	Cod: 3 days; Haddock: 3 days;	Herr	ing : 1 day; Hake : 2 days
	(E)	Answer not known		
57.	Exa	mple for Eco carp hatchery is		
	(A)	Circular chinese hatchery	(B)	Jar hatchery
	(C)	Bund hatchery	(D)	FRP hatchery
	(E)	Answer not known		

58.		ry Carmon combination of Catla the ratio of	rohu	mrigal in composite fish culture
	(A)	3: 3: 4	(B)	3: 4: 4
	(C)	4: 3: 3	(D)	4: 4: 3
	(E)	Answer not known		
59.	The	scientific name of Cauvery carp i	s	·
	(A)	<u>Labeo Fimbriatus</u>	(B)	Catla Catla
	(0)	<u>Labeo</u> <u>Kontius</u>	(D)	Cirrhinus Cirrhora
	(E)	Answer not known	•	
60.	Whic	ch soil is most suitable for fish far	rm p	ractices?
	(A)	Silty clay	(B)	Clay loam
	(C)	Sandy soil		Sandy clay
	(E)	Answer not known		
61.	Acid	sulphate soil have a high amoun	t of	
	(A)	Pyrite a disulphide	(B)	Zeolite
	(C)	Ammonium chloride	` ′	Sodium chloride
	(E)	Answer not known	` '	
62.	A rir	ng shaped personal life saving a d	pplia	nce carried on board a vessel is
	(A)	Life Buoyant apparatus	(B)	Life boat
	(C)	Life buoy	(D)	Life jacket
	(E)	Answer not known		

s in sea			
aunched			
4. As per 11 th Schedule of MSA (LSA) rules (1978) a life buoy should have the minimum capacity to support 14.5 kg in fresh water for			

66.	Choose the right matches among type:				
	1.	Freezing of fish	_	- After rigor mortis is good	
	2.	In freezing of fish		Faster freezing process is linked to the formation of smaller ice crystals.	
	3.	Higher temperature in fish freezi	ng -	- Smaller ice crystals formation	
	4.	Slow freezing process	_	Poor, quality frozen fish	
	(A)	1 and 4 are correct			
	(B)	1 and 2 are correct			
	(C)	2 and 3 are correct			
•	(D)	2 and 4 are correct	•	·	
	(E)	Answer not known			
67.	Lat	itude is followed by the letters			
	(A)	N or S	(B)	E or W	
	(C)	${f E}$	(D)	W	
	(E)	Answer not known			
68.		fishing vessel exhibits two all roung green and lower being white, it			
	(A)	Purse Seining	(B)	Other than trawling	
~	(0)	Trawling	(D)	Gill netting	
	(E)	Answer not known			

69.	The	Ornamental fish which is use	ed for	the control of mosquito larvae is
	(A)	Molly	(B)	Sword tails
	40)	Guppy	(D)	Angel fish
	(E)	Answer not known		
70.				Radio Beacon (EPIRB) transmits the satellite with the frequency of
	(A)	206 MHz		(B) 306 MHz
	(C)	106·MHz		(D) 406 MHz
	(E)	Answer not known		
71.	Writ	te the following statement is t	true	in fire extinguisher?
	(i)	Dry chemical is used only in	ı clas	ss 'A' fire.
	(ii)	Dry chemical is used only in	ı clas	ss 'B' fire.
	(iii)	Dry chemical is used only in	ı clas	ss 'C' fire.
	(iv)	Dry chemical powder is used	d in a	all type of fire.
	(A)	(i) only		(B) (ii) only
	(C)	(iii) only		(D) (iv) only
	(E)	Answer not known		

72.	. The coding colour for foam type fire extinguisher is			
	(A)	Red	(B)	Cream
	(C)	Blue	(D)	Black
	(E)	Answer not known		
73.	The vess	hoisting of International code s el is	igna	l flags N & C indicates that the
	(A)	safe	(B)	indistress
	(C)	having a pilot	(D)) anchored
	(E).	Answer not known		
74.	A cir	cle on a sphere whose plane does	s not	pass through the centre is called
	(A)	Small circle	(B)	Great circle
	(C)	Big circle	(D)	Equator
	(E)	Answer not known		
75 .	One	Nautical Mile is equal to		
	(A)	1.852 m	(B)	1852 feet
	(C)	1852 km	(D)	1.852 km
	(E)	Answer not known		

76.	Choose the right matches among type:			
	1.	Magnetic Compass	_	Repeater compasses
	2.	Gyro Compass	_	Binnacle
	3.	Compass Bowl	_	Least affected by pitching and rolling
	4.	Compass Card	_	Shows the direction on ship's head by lubber point
	(A)	1 and 3 are correct		(B) 1 and 2 are correct
	(C)	2 and 3 are correct		3 and 4 are correct
	(E)	Answer not known		
		•	•	
77.		ual publication conta navigation is called	aining	tide table and all information connected
	(A)	Nautical Almanac		(B) Notices to Mariner
	(C)	Tidal chart		(D) Consol chart
	(E)	Answer not known		
78.		deflection of the com ags and electrical equ	-	needle from Magnetic North due to vessels nts is called as
	(A)	Index error		(B) Compass error
	(C)	Variation		(D) Deviation
	(E)	Answer not known		

79.	Which	of the	following	statement	is	true?
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- (i) Nautical mile is used to measure the distance used by navigators at sea and air.
- (ii) One Nautical mile is equal to 1852 km.
- (iii) 1 knot is speed of one nautical mile/hr.
- (A) (i) only

(B) (i) and (iii) only

(C) (ii) only

(D) (i) and (ii) only

(E) Answer not known

80. Marks used in the buoyage system not primarily intended to assist navigation but to indicate a special area or feature whose nature may not be a apparent from chart or other nautical documents are

(A) Safe water marks

(B) Special marks

(C) Lateral marks

(D) Cardinal marks

- (E) Answer not known
- 81. Unit of speed in navigation is

(A) Nautical mile

(B) Knot

(C) km/h

(D) m/s

(E) Answer not known

82.	After the republican period relationship constraints betwe	s, nautical technology was underlie the en
	Ship architecture and env	ironmental constraints.
	(B) Merchant ships and upwin	nd.
	(C) Sailing and ship architect	ure.
	(D) Environmental constraint	s and merchant ship.
	(E) Answer not known	
83.	The buoy marks used to indica	te well defined channels are called as
	(A) Special marks .	(B) Safe water marks
	Lateral marks	(D) Cardinal marks
	(E) Answer not known	
84.	Highest priority brackish wat can tolerate fluctuations of ten	er organisms having high growth rate and
	(A) Tarpon	(B) Channel catfish
	(C) Tiger prawn	(D) Mollies
	(E) Answer not known	
85.	The blooming of the diatom <u>Fr</u>	agilaria sp indicates the abundance of
	(A) Indian Mackeral	(B) Anchories
	(Indian oil sardine	(D) Scads
	(E) Answer not known	

	1.	Estimate of the virgin unex	ploited biomass
	2.	Estimate the Biomass	
	3.	Estimate the Mortality	
	4.	Estimate the instantaneous	natural mortality rate
	(A)	1 and 3 are correct	(B) 1 and 2 are correct
	(C)	2 and 3 are correct	1 and 4 are correct
	(E)	Answer not known	
87.		weight of gametes represer r old cupped oysters is	nts the percentage of the flesh for a two
	(A)	70%	(B) 60%
	(C)	80%	(D) 30%
	(E)	Answer not known	
88.	The	instantaneous rate of Natur	al Mortality is denoted by
	(A)	M	(B) N
	(C)	Z	(D) F
	(E)	Answer not known	
89.	In V	on Bertalanffy's growth equ	ation, 'to' denotes
	(A)	Growth coefficient	(B) Age of fish
	(C)	Arbitrary origin of growth	(D) Condition factor
	(E)	Answer not known	

Fisheries Technology and Navigation Engineering

86. In Maximum Sustainable Yield (MSY) formula xMBO exists to

90.	In this length - based	Von – B	Bertalanfy :	growth	equation,	what o	does	"to"
	indicates:							

$$Lt = L\infty \Big[1 - \exp(-k^*(t - t0))\Big]$$

- (i) Arbitary origin of growth
- (ii) Growth coefficient
- (iii) Age coefficient
- (iv) Growth rate/Growth time
- (A) (i), (iii) and (iv) only

(B) (ii), (iii) and (iv) only

- (C) (i), (ii) and (iv) only
- (D) (i) only

(E) Answer not known

91. One of the following does not fall under crustacean fishery resource of India.

(A) Prawns

(B) Lobsters

(C) Crabs

(D) Edible oyster

- (E) Answer not known
- 92. Sea weeds have high content of
 - (A) Proteins

(B) Phycocolloids

(C) PUFA

(D) Alkaloids

- (E) Answer not known
- 93. Which one of the following Cephalopod is called "Master of the Arabian Sea"?
 - (A) Loligo Duvauceli

- (B) Sepia Pharaonis
- (C) Octopus Membranaceous
- (D) Sthenoteuthis Oualaniensis

(E) Answer not known

94.	'Mahseer' is the popular name fo	r
	(A) <u>Salmo</u> sp	(B) Tor sp
	(C) <u>Schizothorax</u> sp	(D) <u>Nemacheilus</u> sp
	(E) Answer not known	
95.	'Shoe Dhoni' is used for collection	n of bivalves in
	(A) Cochin backwater	(B) Chilka lake
	(C) Pulicat lake	(D) Kakinada bay
	(E) Answer not known	(D) Nakmada bay
	· · ·	
96.	The scientific name of Indian Pe	arl Oyster is
	(A) Cransostrea Madraseuris	(B) Pinctada fucata
	(C) Perna viridis	(D) Meretrix easta
	(E) Answer not known	
97.	Which was used as a sensitive (1937)?	e test animal for pollution tests by Ellis
	(A) Daphnia	(B) Tilapia
	(C) Guppy	(D) Bivalve
	(E) Answer not known	
98.	The Dwindling population of Ir following lake	rawaddy Dolphins found in which of the
	(A) Vembhanad lake	(B) Chilka lake
	(C) Loktak lake	(D) Kolleru lake
	(E) Answer not known	

Fisheries Technology and Navigation Engineering

99.	9. The characteristics of "Trophic Depression" in reservoir		
	(i)	It is caused by gradual dimin	nishing of the rate of nutrient release.
	(ii) It is due to the blanketing effect of reservoir bed by continuous sedimentation.		
	(iii)	It is due to decrease in the v	olume of the impounded water.
	(A)	(i) only	(B) (ii) and (iii) only
	(C)	(i) and (ii) only	(D) (i) and (iii) only
	(E)	Answer not known	
100	.Bom	nbay duck fishery is an import	cant fishery in
	(A)	Coromandal coast	
	(3)	Bombay and Saurashtra coas	st
	(C)	Gulf of Mannar and cape can	nerian
	(D)	Andhra and Bengal coast	
	(E)	Answer not known	
101	Th	e black clam, <u>Villorita Cyprin</u>	oider is abundant in
	(A)	Asthamudi lake	(B) Chilka lake
	(C)	Pulicat lake	(D) Vembanad lake
	(E)	Answer not known	
102		the estimated marine fisher	ies potential in the EEZ of India, 70% is
	(A)	Pelagic resources	(B) Demersal resources
	(C)	Crustacean resources	(D) Offshore resources
	(E)	Answer not known	

103.	The	Steep and Torrer	itial upper cou	rse of the r	iverine system is	called as
	(A)	Potamon		(B) Epilin	ınion	
	(0)	Rhithron		(D) Hypol:	imnion	
	(E)	Answer not kno	wn			
104.	of k	ich of the followin both the GMDSS VNWS) operated b	and World	Wide Navi	gational Warning	g Service
	(A)	Digital Selective	e Calling (DSC	(B) Sars	sat	
	(C)	Inmarsat		(D) Nav	tex	
•	(E)	Answer not kno	wn .		•	•
105.	Match correctly the function of components of Echo sounder:					
	(i)	Transmitter -	Convert elect	trical energ	y to soundwave	
	(ii)	Receiver -	Display Echo	s on CRT		
	(iii)	Recorder -	Generates hi	gh voltage	electric pulse	
	(iv)	Transducer -	Amplification	n of weak el	lectrical oscillation	ns
	(A)	(iii), (iv), (i), (ii)		(B) (iii), (i	v), (ii), (i)	
	(C)	(i), (ii), (iii), (iv)		(D) (ii), (ii	i), (iv), (i)	
	(E)	Answer not kno	wn			
106.		pecial feature of es from the botton			ruish the bottom	dwelling
	(A)	Time Varied Ga	in	(B) White	line	
	(C)	Depth sounding		(D) Sector	Scanning	
	(E)	Answer not know	wn			

107.		sound wave with frequencies nd is called as Ultra Sonic Sour	•	cles per	
	(A)	200	(B) 2000		
,	(0)	20,000	(D) 20		
	(E)	Answer not known			
108.	Write	e the following statement is tru	ue about radio wave propagatio	on.	
	(i)	Low frequency –	Ground Wave		
	(ii)	Medium frequency –	Sky Wave		
	(iii)	Very high frequency –	Direct line of Sight		
	(A)	(i) only	(B) (ii) only		
	(C)	(ii) and (iii) only	(i), (ii) and (iii) are correct	:t	
	(E)	Answer not known			
109.	The o	capacity of a battery cell is rate	ed in		
	(A)	Volt	(B) Ampere – hours		
	(C)	Watt – hours	(D) Ohm		
	(E)	Answer not known			
110.	Which of the following rule is used for the motors to find direction of movement of a current carrying conductor when placed in a magetifield?				
	(A)	Faraday's rule	(B) Lenz's rule		
	(C)	Ohm's rule	(D) Fleming's left hand rule		
	(E)	Answer not known			

111.	When a glass rod is rubbed with silk cloth, the electricity is produced due						
	to (A)	Friction		(B) Heat			
	(C)	Light		(D) Magnetism			
	(E)	Answer no	t known				
112.	Reas	on and Asse	ertion type:				
	Asse	rtion [A]:	Sluice, a water cout the pond.	ontrol structure allows water in and			
•	Reason [R]:		Sluice can act both	luice can act both as inlet and outlet			
	(A)	[A] is true	but [R] is false				
	(B) Both [A] and [R] are true						
	(C) Both [A] and [R] are false						
	(D) [A] is false but [R] is true						
	(E)	Answer no	t known				
113.	The device that converts torque to thrust in a fishing boat is called						
	(A)	Rudder		(B) Propeller			
	(2)	Quadrant 1	plate	(D) Stern tube			
	(E)	Answer no	t known				

114.	The formula $\frac{PLAN}{4500}$ where $P = Mean \ effective \ pressure \ in \ kg/cm^2$						
	L = I	Length of stroke in m					
	A = A	Area of pistion in cm ²					
	N = 1	Number of power stroke per i	min is	used to estimate			
	(A)	SHP	(B)	(B) EHP			
		IHP	(D)	ВНР			
	(E)	Answer not known	(- /				
	. ,						
115.	In small marine diesel engines, the lubricant oil has to be replaced with fresh oil after						
	(A)	every 250 hrs of running	(B)	every 500 hrs of running			
	(C)	every 1000 hrs of running	(D)	every 3000 hrs of running			
	(E)	Answer not known					
116.	In four stroke diesel engine the inlet and exhaust valves remain closed during the action of the						
	(A)	Spring	(B)	Push rod			
	(C)	Cam	(D)	Cam follower			
	(E)	Answer not known					
117.	In four stroke diesel engine, actually the inlet valve opens						
	(A)	15 degree after TDC	(B)	15 degree before TDC			
	(C)	20 degree after BDC	(D)	10 degree before TD			
	(E)	Answer not known		-			

	(A)	Fuel Injector	(B)	Fuel Pump
	(C)	Governor	(D)	Cylinder block
	(E)	Answer not known		
119.	SBE	stands for	_	
	(A)	Single Buoy Engines	(B)	Stand By Engines
	(C)	Single By Engines	(D)	Stand Buoy Engines
	(E)	Answer not known		
120.		r starting system the compress ylinder head by a valve namely		air from the air bottle passes into
	(A)	outlet valve	(B)	inlet valve
	(C)	starting valve	(D)	transfer valve
	(E)	Answer not known		
121.	One		two	pairs of mandibulary barbels are
	(A)	Ariidae	(B)	Mullidae
	(C)	Polynemidae	(D)	Platycephalidae
	(E)	Answer not known		
122.		rding to the United Nations C ept was introduced during the y		ention on law of the sea, the EEZ
	(A)	2000	(B)	2006
	40)	1976	(D)	1876
	(E)	Answer not known		

118. Spindle is a part of

123.	EEZ act 1976 ensures exclusive right to exploit the living and non living sources comprising — km².						
	(A)	2.12 million	(B)	2.02 million			
	(C)	2.20 million	(D)	2.22 million			
	(E)	Answer not known					
124.	EEZ stands for						
	(A)	Expensive Economic Zone	(B)	Exclusive Economic Zone			
	(C)	Extensive Economic Zone	(D)	Exploited Economic Zone			
•	(E)	Answer not known					
125.	————— draws on fisheries science in order to find ways to protect the fishery resources so that sustainable exploitation is possible.						
	_	•					
	(A)	Fisheries Management		Fisheries Administration			
	(C)	Fisheries Planning	(D)	Fisheries Policy			
	(E)	Answer not known					
126.	Write the stage of extension programme "Careful execution of the work programme" is implemented.						
	(A)	I	(B)	II			
	(C)	III	(D)	IV			
	(E)	Answer not known					
127.	The catcl	-	esigne	d to exclude Turtle in trawl net			
	(A)	TED	(B)	FAD			
	(C)	CAD	(D)	SAT			
	(E)	Answer not known					
		ş	15	Fisheries Technology and			

128.	the selection of a course of action among several alternatives.					
	(A)	Decision making	(B)	Coordination		
	(C)	Supervision	(D)	Administration		
	(E)	Answer not known				
129.		as the type of fishing craft or		son as the period and duration as ing banned varied from State to		
	(A)	decleared	(B)	conditional		
	(0)	uniform ·	(D)	partial .		
	(E)	Answer not known				
130.	How	the fisherman get benefits from	n fis	hery management?		
	(A)	By increased seed production	(B)	By fishing holydays		
	(C)	By increased total production	(D)	By increasing the product price		
	(E)	Answer not known				
131.	If too many small fishes are harvested due to excessive effort and poor selectivity, it will lead to					
	(A)	Recruit overfishing	(B)	Growth overfishing		
	(C)	Economic overfishing	(D)	Ecosystem overfishing		
	(E)	Answer not known		·		
132.	Limiting the number of fishing units will result in					
	(A)	Control on catch	(B)	Increased total catch		
	(C)	Capture at MSY level	(D)	Selective fishing		
	(E)	Answer not known	` /			
		Technology and 36 Engineering				

133.	Catc	Catch curve of fish from the natural environment can be used to estimate its					
	(A)	(A) Instantaneous natural mortality co-efficient (M)					
	(D)	Total instantaneous mortality co-efficient (Z)					
	(C)	(C) Instantaneous fishing mortality co-efficient (F)					
	(D)	Yield per recruit (Y/R)					
	(E)	(E) Answer not known					
134.		eplenish and sustain the natura ber of	ıl sto	ock, it is necessary to have a large			
•	(A)	Juveniles	(D)	Matured fishes			
	(C)	Spent fishes	(D)	Eggs and larvae			
	(E)	Answer not known					
135.	Fish eye is a device that facilitate the escapement of ———————from cod end of trawl.						
	(A)	over sized fishes	(B)	flat fishes			
	(0)	under sized fishes	(D)	sea snakes			
	(E)	Answer not known					
		constant of proportionality bety l cod end and stretched cod end		n 50% retention length of a fish in sh size is called			
	(A)	K	(B)	Selection range			
	4	Selection factor	(D)	C			
	(E)	Answer not known					

137.	The exploitation ratio (E) of fish stock can be estimated by the relation					
	(A)	E = F/Z	(B) $E = Z/F$			
	(C)	E = M/F	(D) $E = F/M$			
	(E)	Answer not	known			
138.	The fishing mortality rate which if applied constantly would result in maximum sustainable yield is denoted by the acronym					
	(A)	MSY	(B) FMSY			
	(C)	BMSY	(D) MEY			
	(E)	Answer not	known			
139.	The quantity of water vapour present in the atmosphere is denoted by the Meterological parameter known as					
	(A)	Fog	. (B) Haze			
	(0)	Humidity	(D) Mist			
	(E)	Answer not	known			
140.	Asse	rtion [A]:	Moist air is lighter than dry air at constant temperature and pressure.			
	Reas	on [R]:	When the volume of air is made moister, heavy molecules such as N_2 and O_2 are replaced with lighter molecule, H_2O .			
	(A)	[A] is true l	but [R] is false			
	(B)	Both [A] ar	nd [R] are true; and [R] is the correct explanation of [A]			
	(C)	[A] is false,	[R] is true			
	(D)	Both [A] a of [A]	nd [R] are true, but [R] is not the correct explanation			

Answer not known

(E)

141.	Which of the following are low clouds?				
	(i)	Cumulus			
	(ii)	Stratus			
	(iii)	Strato Cumulus			
	(iv)	Alto stratus			
	(A)	(i) and (ii) only	(B)	(ii) and (iii) only	
	(C)	(i) and (iii) only	(11)	(i), (ii) and (iii) only	
	(E)	Answer not known			
142.	Pres	ssure in the ocean increases 1 at	mos	sphere for each	
	(A)	1 meter of depth	(B)	10 meter of depth	
	(C)	100 meter of depth	(D)	1000 meter of depth	
	(E)	Answer not known			
143.	alig	_	_	circulation cells with long axes the generating wind has been	
	(A)	Laminar flow	(B)	Langmuir circulation	
	(C)	Dispersion	(D)	Convergence	
	(E)	Answer not known			
144.	_	opular warm water current sa ulation of anchovies in the coast		o be responsible for the reduced raters of peru is called	
	(A)	EI Nino current	(B)	La Nina current	
	(C)	Alaska current	(D)	California current	
	(E)	Answer not known			

145. The combination of one high and one low water mark during is known as			ow water mark during a tidal day				
	(A)	Tidal bore	(B)	Diurnal tide			
	(C)	Semi diurnal tide	(D)	Mixed semidiurnal tide			
	(E)	Answer not known					
146.		waves with less than 1.7 cm econd are called	n wa	ave length and period less than			
	(A)	Capillary waves	(B)	Gravity waves			
	(C)	Tidal waves	(D)	Surface waves			
	(E)	Answer not known		•			
147.	The lowest range of the tide occurring near the times of the first and last quarter of the moon is						
	(A)	low tide	(B)	high tide			
•	JES .	neap tide	(D)	spring tide			
	(E)	Answer not known					
148.		apparent force resulting from deflection is known as	rot	ation of the earth, which causes			
	(A)	Coriolis acceleration	(B)	Cyclone			
	(C)	Trade winds	(D)	Coriolis force			
	(E)	Answer not known					

149.		imaginary perature is te		lines	that	connect	points	of	equal	water
	(A)	Isohalines			(B)) Isobars				
	(0)	Isotherms			(D) Mesoth	erms			
	(E)	Answer not	known							
150.	The calle	tidal pattern d as	with one	high (tide an	ıd one lov	v tide in	eac	h lunar	day is
	(A)	diurnal tida	al pattern	l	(B)) semidit	ırnal tid	al p	attern	
	(C)	mixed tidal	pattern		(D) daily ti	dal patte	ern		
	(E)	Answer not		•		•			•	
151.		shallow wate e continenta		ıat ext	ends fi	rom the i	ntertida	l zo	ne to th	ne edge
	(A)	Oceanic zon	ne		(B)	Epipela	gic zone)		
	(C)	Mesopelagie	c zone		D	Neritic	zone			
	(E)	Answer not	known							
152.	The meas	gauges mour sure	nted on p	latforn	ns or o	n the sea	floor in	sha	allow w	ater to
•	(A)	Wave heigh	ıt		(B)) Tidal p	otential			
	(C)	Current vel	ocity		(D) Wind s	peed			
	(E)	Answer not	known							

153.	153. A Katabatic wind that blows over the North and East of the Adria from a direction between North and East is called			
	(A)	Gregale	(B)	Mistral
	(C)	Pampero	(1)	Bora
	(E)	Answer not known		
154.	A str		n flo	owing seaward from the shore is
	(A)	drift current	(B)	ebb current
	(C)	rib current	(D)	long shore current
	(E)	Answer not known		•
155.	The	cause for Tsunami is due to		
	(A)	Wind	(B)	Seismic Upheaval
	(C)	Pressure change	(D)	Gravity of sun and moon
	(E)	Answer not known		
156.	A wa	ve with gravity as the restorin	g for	rce
	(A)	Rogue wave	(B)	Wave base
	(0)	Gravity wave	(D)	Wave separation
	(E)	Answer not known		
157.	Agul	has current flows in the		
	(A)	Indian Ocean	(B)	Pacific Ocean
	(C)	Atlantic Ocean	(D)	Arctic Ocean
	(E)	Answer not known		

158.	One	cubic metre of sea water will	weig	rh	
	(A)	1 ton	(B) 1.025 to	n
	(C)	1.25 ton	(D	0) 0.95 ton	
	(E)	Answer not known			
159.	Whic	ch of the following are true fo	r 3 –	Ply retort	pouch?
	(i)	Outer Ply - Polyester			·
	(ii)	Middle Ply – Aluminiu			
	(iii)	Inner Ply – Polypropy			
	(A)	(i) and (ii)	(B	(i) and (iii) ·
	(C)	(ii) and (iii)	(D	(i), (ii) a	nd (iii)
	(E)	Answer not known			
160	Whic	ch is NOT a functional packa	ging (evetam?	
100.					
	(A)	Active packaging	•	MAP Air pack	raging
	(C)	Edible films Answer not known	ξ D) Air paci	caging
	(E)	Allswer not known			
161.	Blea	ching of fish protein concentr	ate is	s done by	using
	(A)	Hydrochloric acid	(B) Hydroge	en peroxide
	(C)	Sodium hydroxide	(D)) Sodium	hypochloride
	(E)	Answer not known			
162.	Squa	alene is rich in			
	(A)	Oyster	(B	3) Clam	
	W/	Deep sea sharks	(D) Crab	
	(E)	Answer not known			
		4	13		Fisheries Technology and Navigation Engineering [Turn over

	(A)	$oldsymbol{eta}$ Chitin	(B)	γ Chitin
	(C)	ω Chitin	(D)	α Chitin
	(E)	Answer not known		
164.	The	hydrolyzed form of collagen is		
	(A)	Chitin	(B)	Gelatin
	(C)	Glucosamine	(D)	Astaxanthine
	(E)	Answer not known		
165.			extra	acted from skin and bones of the
	fishe	es	_	
	(A)	Isinglasses	(B)	Gelatin
	(C)	Fish silage	(D)	Fish meal
	(E)	Answer not known		
166.	Whic	ch of the following are general i	nach	ninery for fish canning?
	(i)	Brining Machines		
	(ii)	Exhaust boxes		
	(iii)	Smoking ovens		
	(A)	(i) only	(B)	(i) and (iii) only
		(i) and (ii) only		(ii) and (iii) only
	(E)	Answer not known	(~)	(ii) alla (iii) olliy
	(—)			

163. The most common form of Chitin is

167.	67. In quick freezing, the time taken for getting over the critical temperators range of 0 to -5°C is ———————————————————————————————————			
	(A)	30	(B)	35
	(C)	40	(D)	50
	(E)	Answer not known		
168.	achie		s evalı	thods have been successful in lated by drip loss and sensory
	(A)	Hydro fluidisation	(B)	Pressure – shift freezing
	(C)	Magnetic freezing ·	(D)	Impingement freezing
	(E)	Answer not known		
169.	Parti	al securing of can body and	can end	l for heat exhausting is called as
	(A)	double seaming	(B)	can closing
	(0)	clinching	(D)	sealing
	(E)	Answer not known		
170.	Thicl	kness of steel plate for can m	nanufac	turing
	(A)	0.18 - 0.3 mm	(B)	0.35 - 0.5 mm
	(C)	0.6 - 0.7 mm	(D)	0.8 - 1.0 mm
	(E)	Answer not known		
171.	Type	of retort mainly used for th	ermal p	processing of retort pouches
	(A)	over pressure retort	(B)	steam air retort
	(C)	agitating retort		hydro static sterilizer
	(E)	Answer not known	, ,	•
			45	Fisheries Technology and Navigation Engineering [Turn over

172.	Wh	ich of the factors affect the spoils	age 1	rate of a fish?
	(i)	Water content		
	(ii)	Oxygen content		
	(iii)	Ash content		
	(A)	(i) only	(B)	(ii) and (i) only
	(C)	(i) and (iii) only	(D)	(ii) and (iii) only
	(E)	Answer not known		
173.	Dur	ring spoilage, the pH of fish mus	cle	
	(A)	increase ·	(B)	decrease ·
	(C)	increase and then decrease	(D)	decrease and then increase
	(E)	Answer not known		
174.	Wh:		oreal	kdown immediately after death of
	(A)	Carbohydrate and Nucleotide	(B)	Carbohydrate and Protein
	(C)	Protein and Nucleotide	(D)	Protein and Fat
	(E)	Answer not known		
175.		vering the water activity belovent the growth of pathogenic ba		
	(A)	0.6		0.7
	(C)	0.8	(D)	0.9
	(E)	Answer not known		

176.	76. Which one of the following is an aromatic amino acid?			ic amino acid?	
	(A)	Valine	(B)	Leucine	
	(C)	Cystine	(D)	Tyrosine	
	(E)	Answer not known			
177.		———has high glycogen	con	tent.	
	(A)	Shrimp	(B)	Mussel	
	(C)	Crab	(D)	Fish	
	(E)	Answer not known			
178.	Writ	e the following fish is herbivoro	ous	•	
	(A)	Ctenopharyngodon idella	(B)	<u>Channa marulius</u>	
	(C)	Wallago attu	(D)	<u>Tilapia mossambiea</u>	
	(E)	Answer not known			
179.	Prox	imate composition of fish is not	t infl	uenced by	
	(A)	method of catching	(B)	age of fish	
	(C)	environmental conditions	(D)	size of fish	
	(E)	Answer not known			
180.		imate composition accounts tituents of fish.	for -	———— of total tiss	аe
	(A)	90 - 92%	(B)	93 – 95%	
	40	96 – 98%	(D)	99 – 100%	
	(E)	Answer not known			

181.	Mud	d – Bank formation is mostly re	stric	ted to the region between			
	(A)	Kanyakumari and Vizhinjam					
•	(B)	Allappey and Calicut					
	(C)	Mangalore and Goa					
	(D)	Vishakapatinam and Bhuban	eshv	var			
	(E)	Answer not known					
182.	In an estuary, where sea water rests on the bottom and freshwater flow over the surface of salt water is called						
	(A)	Partially mixed estuary	(B)	Salt wedge estuary			
	(C)	Well mixed estuary	•	Bar – Built estuary			
	(E)	Answer not known	` ,	·			
183.	The	Osmoregulatory function in fis	hes i	is carried out by			
	(i)	Kidney					
	(ii)	Swembladder					
	(iii)	Webarian Ossicle					
	(iv)	Gill					
	(A)	(i) only	(B)	(i) and (iii) only			
•	(C)	(i) and (iv) only	(D)	(i), (iii) and (iv) only			
	(E)	Answer not known					
184.	Flyi	ng fishes belong to the family					
	(A)	Synodontidae	(B)	Exocoetidae			
	(C)	Hemiramphidae	(D)	Belonidae			
	(E)	Answer not known	` /				

	(A)	Kidney	(B)	Liver
	(C)	Nephire	(D)	Epinephrine
	(E)	Answer not known		
186.		ratio between food consumed f pressed by		er unit weight gained by the body
	(A)	Food Conversion Rate	` '	Food Absorption Rate
	(C)	Food Consumption Rate	(D)	Food Assimilation Rate
	(E)	Answer not known		
187.	Prota	androus hermaphrodite		
	(A)	Grouper	(B)	Wrasse
	40)	Seabass	(D)	Parrot fish
	(E)	Answer not known		
188.	The fishe		n the	e embryonic development of bony
	(A)	Equal holoblastic cleavage		
	(B)	Unequal holoblastic cleavage		
	(C)	Discoidal meroblastic cleavag	e	
	(D)	Superficial meroblastic cleave	age	
	(E)	Answer not known		

185. During state of stress in fish, the blood flow is regulated by

189. Assertion (A): If the production of yolk takes place within oocyte, it is

called endogenous vitellogenesis.

Reason (R): Yolk proteins provides maturing oocytes with the

metabolic energy required for development.

(A) [A] is true but [R] is false

Both [A] and [R] are true; and [R] is the correct explanation of [A]

- (C) [A] is false, [R] is true
- (D) Both [A] and [R] are true, but [R] is not the correct explanation of [A]
- (E) Answer not known

190. Which of the following is/are not the Carnivorous Fish(es)?

- (i) Wallogo Attu
- (ii) Channa Striatus
- (iii) Notopterus Chitala
- (iv) Cyprinus Carpio
- (A) (iii) only

(B) (iv) only

(C) (i) and (iv) only

(D) (iii) and (iv) only

- (E) Answer not known
- 191. Which of the following statement is true about "Scopelids"?
 - (A) Fishes that live in the intermediate and upper layers over great depths
 - (B) Fishes that live on the surface
 - (C) Fishes that live near the surface
 - (D) Fishes that live intermediate only
 - (E) Answer not known

	(A)	Penaeus Monodon	(B)	Penaeus Semisulcatus
	(C)	Penaeus Penicillatus	(D)	Parapenaeopsis Stylifera
	(E)	Answer not known		
193.	Num	ber of Cranial Nerves in fish is		
	(A)	5 pairs	(B)	8 pairs
	(6)	10 pairs	(D)	12 pairs
	(E)	Answer not known		
				•
194.	The	gill rackers are numerous and e	elong	gated in
	(A)	Flat fishes	(B)	Common carp
	(6)	Plankton feeders	(D)	Tuna
	(E)	Answer not known		
195.	<u>Villo</u>	<u>rita Cyprinoider</u> is a		
	(A)	Edible oyster	(B)	Pearl oyster
	(0)	Clam	(D)	Mussel
	(E)	Answer not known		

192. 'Green tiger shrimp' is called

the	HOI	owing:
l	he	he foll

- (i) Banana Shrimp
- Penaeus Japonicus
- (ii) Indian White Shrimp
- Penaeus Merguiensis
- (iii) Pacific White Shrimp
- Lito Penaeus Vannamei
- (iv) Kuruma Shrimp
- Penaeus Indicus
- (A) (ii), (iii), (iv) and (i)
- (ii), (iv), (iii) and (i)
- (C) (i), (iv), (iii) and (ii)
- (D) (i), (iii), (iv) and (ii)
- (E) Answer not known

197. Which of the following is correctly paired?

- (i) Sphyrna sp Hammer head shark
- (ii) Pristis sp
 - Saw fish
- (iii) Dasyatis sp
 - Electric ray
- Rhinodon sp (iv)
- Guitar fish
- (i) and (ii) only

(B) (i) and (iii) only

(C) (ii) and (iii) only

- (D) (ii) and (iv) only
- (E) Answer not known

198. The fishes that have accessory respiratory organ are

- (i) Anabas sp
- (ii) Clarius sp
- (iii) Channa sp
- (iv) Chanos sp
- (A) (ii) and (iii) only

(B) (ii) and (iv) only

- (C)
 - (i), (ii) and (iii) only
- (D) (ii), (iii) and (iv) only
- (E) Answer not known

199.	The length which is measured from tip of snout to the base of the tail is known as					
	(A)	Total length	(B)	Standard length		
	(C)	Fork length	(D)	Snout length		
	(E)	Answer not known				
200.	The (A) (C) (E)	relationship between the lenge Cubic law relationship Linear relationship Answer not known	(B)	d weight of the fish is based on Natural log relationship Normal curve relationship		

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