Sl. No.: 30000057

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2016

Paper I

FISHERIES TECHNOLOGY AND NAVIGATION ENGINEERING

(Diploma Standard)

Time Allowed: 3 Hours]

[Maximum Marks: 300

STFT/16

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open
 it at the commencement of the examination. As soon as the signal is received you should tear the right
 side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series without any omission and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes.
- 3. Answer all questions. All questions carry equal marks.
- 4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- 5. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers.
- 6. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. etc. with <u>Blue or Black ink Ball point pen</u> in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

(A) (D) (D)

- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination.

 After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. The sheet before the last page of the Question Booklet can be used for Rough Work.
- 11. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.
- 12. Do not tick-mark or mark the answers in the Question booklet.

S Complete Control

l.	The s	spiracle present both in sharks ar	ıd rays i	s co	rrespond	ing to			*
	(A)	Nostril		•			•	÷	
		Vestigial first gill slit				•			
	(C)	Vestigial second gill slit							
	(D)	Vestigial third gill slit				•			
		•		•	ı		•		• .
_	C1			o ft o	doo+b			•	
4.		ening of the muscles of an animal	snormy	arte	Rigor m	ontio	•	4	
•	(A)	Autolysis		<i>יבי</i> ן רבו׳	_				
	(C)	Asphyxia		(D)	Hypere	ша			
		•					,	•	
3.	_	ic fluctuations in annual growth r s since they are	ates ref	lecti	ng variat	tions in 1	eeding a	nd metab	oolism in
	(A)	warm blooded		•	, -	•	•		•.
	(Pa)	cold blooded			•				
•	(C)	having short life span							•
	(D)	having long life span	,	•	•	•			
			,			•	•	•	•
4.		es of some deep sea fishes are obli aple is		aras	sites on t	he femal	es of the	same spe	ecies. An
•	. (A) ·	Pacific Lamprey <u>Lampetra</u> trid				•			
•	(B)	Deep sea eel <u>simenchelys</u> paras	<u>siticus</u>			,			
	(3)	Deep sea angles fish, <u>ceratias</u>							
	(D)	Sea lamprey <u>petromyzon marir</u>	<u>ius</u>				•		
	*					•		•	
5.	The	fish heart is constructed fundame	entally to	o aff	ord	•	•		
•	(A)	double circulation	المرا		_	circulat	ion	•	
	(C)	multiple circulation	((D)		ated circ			
	(-)		,	` ,	_			•	
6.	Gas	bladders are not present in							
	(A)	Cat fishes						•	
	(3)	Cyclostomes			•				•
	(C)	African lung fish Ptotopterus					-		,
	(D)	American lung fish <u>Lepidosirer</u>	<u>1</u>	•					•
•		•				•			

7.	The	digenetic trematode responsible for bl	ack spo	t disease in fresh water fishes is	
	(A)	Trichodina sp.	0	<u>Diplostomum</u> sp.	
	(C)	Myxobolus sp.	(D)	<u>Leptotheca</u> sp.	•
8.	The t	term 'Spat' is related to			
٠.	(A)	Prawn	(B)	Lobster	
	(C)	Crab		Oyster	
9.	In fr	esh water fishes, the white spot disea	se is car	used by the protozoan ciliate	
	(A)	Dactylogyrus lamellatus	•	·	
		Ichthyophthirius multifilies			
	(C)	Myxosporidia spp			
	(D)	<u>Myxobolus lieni</u>		•	
10.		Tursery ponds, soap-oil emulsion is s to stocking of spawn to eradicate	prayed	over the pond surface about 12 to 24 hr	3.
	(A)	Spawn of unwanted fishes		,	
	(B)	Aquatic weeds			
	(C)	Weed fishes		•	
		Aquatic insects		•	
11.	The	floating weed, water hyacinth belongs	to the	genus	
	(A)	<u>Pistia</u>	· (B)	<u>Salvinia</u>	
	SCHOOL STREET	<u>Eichhornia</u>	(D)	Azolla	
12.	TPina	bran, one of the commonly used fish f	ood ina	radiants has the protein content of	
14.	Trice	.10-12 percent	.eeu mg. (B)	15-20 percent	
	(C)	_ ·	(D)	25-30 percent	
	(C)	1-2 percent	(1)	20-00 percent	
13.	The	Plankton eating surface feeder includ	e .		
	(A)	<u>Labeo rohita</u>	(B)	Cirrhinus mrigala	
•	(0)	Catla catla	(D)	<u>Labeo</u> calbasis	
		•	,		

- When the observations are arranged in ascending or descending order of magnitude pertaining to fish or fishery data, the middle value is called
 - (A) Mean

Median

(C) Mode

- (D) Average
- 15. Annuli of Otolith of Fish is useful in the estimation
 - Age of Fish
 - (B) Weight of Fish
 - (C) Length of Fish
 - (D) Mortality rate of Fish
- 16. The exploitation ratio (E) of a Fish stock can be estimated by the relation

$$E = \frac{F}{Z}$$

(B)
$$E = \frac{Z}{F}$$

$$(\dot{C}) \qquad E = \frac{M}{F}$$

(D)
$$E = \frac{F}{M}$$

- 17. In the equation explaining the mortality parameters of fishes Z = F + M, 'F' denotes
 - (A) Total Instantaneous Mortality
 - (B) Instantaneous Natural Mortality
 - Instantaneous Fishing Mortality
 - (D) Mortality due to other Fish population
- 18. In the Von Bertalanffy's growth equation of Fish, the parameter 'K' denotes
 - (A) Asymptotic length

Growth co-efficient

- (C) Orbitary origin of growth
- (D) Time
- 19. One among the following four is not the clam species that constitute fishery in Indian waters
 - (A) Villorita cyprinoides
 - (B) Paphia malabarica
 - (C) Meretrix casta
 - Crassostrea madrasensis

	Distilled water + ethyl alcohol
(B)	Distilled water
(C)	Ethyl alcohol
(D)	Distilled water + acetic acid
	•
The	life line of buoyant apparatus should have atleast ————————————————————————————————————
	8 mm diameter
(B)	8 cm diameter .
(C)	80 mm diameter
(D)	80 cm diameter
The	term "Heterosis" is related to
(A)	Polyploidy
(B)	Androsgenesis
(C)	Gynogenesis
Jan	Hybridization
The	lubber line of magnetic compass is aligned with ———— of a vessel.
	Fore and aft centre line
(B)	Beam
(B) (C)	Beam Water line
, ,	
(C)	Water line
(C) (D)	Water line Horizon line
(C) (D) Whi	Water line Horizon line ich of the following is useful in launching the life boat from a ship?
(C) (D)	Water line Horizon line ich of the following is useful in launching the life boat from a ship? Winch
(C) (D) Whi	Water line Horizon line ich of the following is useful in launching the life boat from a ship?

25 .		short period vari	ations of	certain me	eteorolog	gical elemer	rts in th	e atmosp	here is t	ermed
	as (A)	Climate			D	Weather				
	(C)	Monsoon		r	(D)	Season				•
÷	(-)				` '	,			•	
26.	. The s	search and rescue	e transpo	nder opera	tes on a	frequency o	of		,	
	(A)	9 MHz	•	*	(B)	9 KHz	·	,	•	s.
	(C) .	9 Hz		8-	(2)	9 GHz				
•		•			•	·				
27.	- An op objec	ptical instrument	which is	used for n	neaning	vertical and	ł horizor	ntal angle	s betwee	n two
	(A)	Compass		,		•		•		
•	(B)	Chronometer			•		.*		•	
	. (C)	Log		•				•		
	(C)	Sextant		, .		•		•	٠.	•
	(CAUAITO							· .	
၈၀	The r	name of a combin	od moabi	no for hos	ring the	ahain aahla	and mo	oring hou	rooro io	٠.
20.,	(A)	Chain Locker	eu macm	ne for neav	(B)	Winch	and mo		7 8018 18	•
	4	Windlass	•		(D)	Tackles				
		·		<i>;</i> ;		•	·			•
29.	The f	technique used to	interloc	k the stran	.ds so as	to join two	ropes or	form an	eye at th	ne end
		ope is called as								
	(A)	Hitching	-		9	Splicing				•
	(C)	Whipping			(D)	Mousing		-	•	·
			•	•		•				
30.	Whic	h of the following	g fibres ar	re easily da	ımaged l	by acid and	alkaline	substan	ces?	
	(A)	Synthetic fibres	•	· · · ·	٠, ،	·.	•		,	
	(B)	Animal fibres			: ,		•	<u>.</u>	• • •	
•		Vegetable fibres	s		•		,	,	-	•
	(D)	Steel threads				•	-		.•	•
•	ν.,		. • *							•

31. Match the List I with List II and select the correct answer using the codes given below

List I

List II

(a) Squalene

1. Fish skin and head

(b) Gelatin

- 2. Vertebrae
- (c) Fish calcium
- 3. Skins and Bones of fish

(d) Fish glue

4. Shark liver oil

(a) (b) (c). (d) 3 2 1 3 2 · **(B)** 1 4 (C) 1 4 2 (D) 3

- 32. Ambergris is a metabolic product of
 - (A) Octopus
 - (B) Seals
 - (C) Porpoises
 - Whales
- 33. Species of seaweed used for production of carageenan
 - (A) Hormophyra dictyota
 - (B) Gelidium cartilagineum
 - Chrondrus crispis
 - (D) <u>Ulva rigida</u>
- 34. Find out which one of the following is not the use of seaweeds
 - (A) Food

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- (B) Fodder
- (C) Fertilizer
- Growth promoter

3 5.	Dura	ation of cold smoking should r	ot exceed		<i>i</i> · .	
	(A)	24 hours	,	(B)	30 hours	•
	10	72 hours		(D)	48 hours	* * * * * * * * * * * * * * * * * * *
. •			·			
36.	Mxo	fibrillar protein covers	% of t	he tot	al protein.	•
ijΟ.	,		,		60-70	
	(A)	52-68	•	(B)		
		66-77		(D)	70-80	
						• .
37.	The	range of protein content of fis	h meat is	•		•
	(A)	16-22%		(3)	15-24%	
	(C)	10-15%		(D)	8-12%	•
			•	*	•	•
38.	In sa	alt cured fish, the most impor at	rtant spoi	lage n	nicroorganisms are halop	hiles that will no
	(A)	6% salt level		(B)	7% salt level	•
	(C)	8% salt level			10% salt level	
		,				
39.		can be defined as	one's abili	itv to s	get others to willingly fol	low.
	(A)	Guidance			Leadership	
	· (Ċ)	Coordinator		(D)	Leader	
			•	(-)		
	•					
40.	ansv	is a systematic m ver questions about projects, p			ting, analysing and using rams.	g information's to
	(A)	Project implementation	• .•			
	(B)	Project analysis				• .
. .	(C)	Project prediction		٠		•
	0)	Project evaluation			•	:
	_			•	•	*

•	•	•			• •	
41.	(a)	In natural spawning, <u>Clarias</u> sp.	make 5-8	cm deep hollow n	ests in shall	ow waters.
	(b)	The egg are adhesive in nature.		•	•	
		(a) and (b) are correct	•			
	(B)	(a) and (b) are wrong				•
	(C)	(a) is correct and (b) is wrong				
	(D)	(a) is wrong and (b) is correct	,		•	•
	•		•			
42.	(a)	The fine textured soils like clay a	re more s	uitable for pond fa	arms.	
	(b)	They have a greater surface area			'	nd retain and
	· (D)	release them for organic producti				,
					· ·	• • •
	£49	(a) and (b) are correct				•
•	(B)	(a) and (b) are wrong \cdot	,		•	
	(C)	(a) is correct and (b) is wrong			•	•
•	(D)	(a) is wrong and (b) is correct			• .	
•		•				,
43.		merged weed, which is completely	submerge	ed under water k	out may be	rooted in the
•	(A)	Typha	(B)	<u>Eichhornia</u>		
- ,	5	<u>Hydrilla</u>	(D)	Ceratophyllum	•	
		•	•		•	
44.	. The	soil is smooth, sticky and plastic wh	nen there	is a moist		•
	(A)	sand	(B)	silt		
	(0)	clay	(D)	alluvial soil		
	•	• • • • • • • • • • • • • • • • • • • •	,	•	.•	
45.	A bir	nder which is commonly used in fisl	n feed ind	ustry		
	(4)	Carboxy methyl cellulose			,	•
	(B)	Butylated hydroxy anisole		٠	,	
	(C)	Sodium benzoate		•		
	(D)	Ethoxyquin	1		•	•

	cause	ed by			•
	. (23)	Fungi	(B)	Bacteria	
	(C)	Virus	(D)	Parasite	
					• .
.47.	Exces	ssive dietary lipid levels can cause nu	itritions	l diseases such as	
- 5-E	(A)	Hemorrhage in eyes			•
	(B)	Skin lesions			
	(C)	Muscle atrophy			
	(D)	Fatty liver			
	,				
48.	High	protein diet is required for		species.	
	(A)	Predatory	(B)	Omnivorous	
	(C)	Herbivorous		Carnivorous	
•					
49.	The f	fish which is called as 'aquatic chicke	n'.		,
	(A)	Catfish	· (B)	Common carp	, , , , , , , , , , , , , , , , , , ,
	(C)	Catla	. 50	Tilapia	
	, ,		-	•	
	• .	T 1 C 1 Claration and	b	tookod with mullot	
50. ·	(a)	In shrimp farm, biofiltration pond Milk fish can also be stocked with			
	(b) ·	•	,	,	4
	(A)	(a) is wrong and (b) is correct			• .
	(25)	(a) and (b) are correct			
	(C)	(a) is correct and (b) is wrong			
	(D)	(a) and (b) are wrong		•	
				•	
51.	To k	eep essential trace elements in synth	etic sea	water medium ——	——— is added.
	(A)	NaNO ₃		EDTA	
-	V ~7	•	• .	Thymine	• •

52.	The 1	mid water fishes living in aphotic zone	of the	sea are adopted for
	(A)	Herbivorous mode of feeding		
	(B)	Carnivorous mode of feeding		
·	(C)	Planktonivous mode of feeding		
•	(C)	Predatory mode of feeding		
• .	,			
53.	The .	Japanese term for the large destructive	e wave	s that occasionally roll into their harbors is
	(A)	Surfing	•	
	(3)	Tsunami		
	(C)	Surging breaker		
	(D)	Rogue waves		•
		•		•
F 4	A			
54.		ng the whales, the largest whale is		•
	(A)	Killer whale	. •	
,	(B)	Sperm whale		
	(C)	Humpback whale		•
	A CONTRACTOR OF THE PARTY OF TH	Blue whale		
		•	•	
55 .	The 1	term 'sea cow' denotes manatees and		· · · · · · · · · · · · · · · · · · ·
	(A)	Seals	(2)	Dugongs
	(C)	Walruses	(D)	Dolphin
	•		. •	
56.	Incor	ne elasticity of demand for high value	fishes	would be
•	(A)	=1	(B)	= 0
*	(2)	>1	(D)	<1
·				
	*		•	
57.	The 1	major constituent among the dissolved	compo	onents of the sea water is
,	(A)	Sodium		Chloride
	(C)	Sulphate	(D)	Magnesium .

- The ratio between the mid ship sectional area of a boat to the area of circumscribing rectangle is called ·Mid ship section coefficient Water line co-efficient (B) Block co-efficient (C) Prismatic co-efficient (D) The weight of a FRP boat in comparison with equivalent wooden boat will be 59. Lighter by about 25% Lighter by about 50% Lighter by about 75% (C) Lighter by about 40% (D) The ratio between the velocity of the boat and the square root of its length is called 60. Block co-efficient Froude's number Prismatic co-efficient (C) Water line co-efficient (D) According to law of floatation, the weight of a floating object is equal to 61. Weight of the displaced fluid Volume of the displaced fluid (B) Weight loss experienced by the floating body. (E)
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Weight of the floating body below water line

(D)

62	The p	portion of webbing which forms the boad	arder a	round the main webl	oing in a purse seine s
•		Selvedge	(B)	Bunt	· · · · · · · · · · · · · · · · · · ·
	(C)	Skiff	(D)	Flapper	
	•		•		•
63.	The o	difference between the draught forwar	d and	draught aft is called	•
	(A)	Camber	(B)	Beam	
	(0)	Trim	(D)	Heel	
64.	Non-	rigid boat constructed with planks sew	n toge	ether with coir rope is	
	· (A)	Catamaran .		•	•
	(B)	Dry out canoe			
	J.C.	Mosula boat			•
	(D)	Thoni	,		
	,	•		•	. •
65.	Dug	out canoes are popularly used in		,	
	(1)	Kerala back waters			·
	(B)	Kanyakumari coast of Tamil Nadu			,
	(C)	Orissa Coast			•
	(D)	Gujarat Coast			,
•		•	•		
66.	Chro	mated zinc chloride is used as a preser	vative	to preserve	
	(A)	Gill net	٠	, , , , , , , , , , , , , , , , , , ,	
	J. Park	Boat building timber		,	· · · · · · .
•	(C)	Trawl net	•	•	
	(D)	Purse seine		•	•

67.		shows the financial position	and stal	oility of t	he busines	s at a p	articular	r time
	(A)	Income statement	•			,		
,	(B)	Cash flow statement				•		
	(C)	Profit and loss account			•	•		
	D	Balance sheet						•
								•
68.	The	sequence of which projects are plann	ed and o	carried o	ut is called			
00.	(A)	Pre-feasibility studies	:					•
	(B).	Project evaluation			,		•	
	(C)	Project monitoring	•					
•		Project cycle	-	• `				
•		110,000 0,000						
	•	•			,			•
69.	If de	emand change is greater than supply	change	•	•			
		Price rise	·		•			
	(B)	Price fall	•					
	(C)	No change in price						
	(D) ⁻	Erratic change is price					•	
70.	Elas	sticity of demand is determined by all	the foll	owing fa	ctors excep	ot		
	(A)	Nature of commodity	•			,		
	(B) ·	Substitutes	•		٠			•
	(C)	Time	• •				•	
•		Government policies		•	,			*
,		•		· . • .				
			0.7	,	<i>a</i>		· · · ·	
71.	Whi	ich of the following will cause a shift o	of dema:	nd curve	from its oi	nginai ţ	osition e	excepts
	(A)	Change in price of product				•		
	(B)	Change in price of substitute					٠	•
	101	Increase in subsidy on raw materi	als				٠.	
	(D)	Increase in disposable income	•					
β	•		15			· :	{	SIFT/1

72.	Whic	n of the following does not fall under classification of Cooperatives societies
	(À)	Area of operation
	(B)	Purpose
•	(C)	Economic activity
	0	Business interest
•		
73.	The i	deal fishing gear to carryout the fishery resource survey is
•		Demersal trawl net
	(B)	Gill net
,	(C)	Long line
	(D)	Purse seine
		most important aspect in the biological survey of fisheries resources include the bling and analysis of
•		Ichthyoplankton
•	(B)	Phytoplankton
	(Ċ)	Zooplankton
	(D) ·	Nekton
7 5.	The	shoal forming fish that constitutes notable fishery along the west coast in the states of
	Karı	nataka and Kerala is
	(A)	Lesser sardine
	(B)	Tuna
	(8)	Mackerel
	(D)	Seer Fish

	(B)	Ignition temperature	,	
,	100	Flash point		
	(D)	Pour point		·
77.	•	ideal lubrication system for big marine diese	l engme is	
· .	(A)	Grease oiling	•	•
	(B)	Splash lubrication		•
	(C)	Mist lubrication		
,	(D)	Force feed lubrication	•	
	٠.	•		
70	T., C.	the lived area the toward alone		
78. ·		our stroke diesel engine the tappet cleara sted according to the	nces of the injet and ex	tnaust valves are
	(A)	size of the engine		
	(B)	number of cylinders in the engine		
4		firing order of the engine		
•	(D)	·		
٠.	(D)	strokes of the engine		:
				• .
79.		e fuel pump of a diesel engine, the plunger bement and	nas two types of movemen	ts such as vertical
	ما المعالم	lateral movement	, .	
	(B)	circular movement		,
,	` '	zig-zag movement		
•	(C)			
	(D)	reciprocating movement		•
			•	•
. 80.		leakage of compressed air and combustion s is prevented by	gas through the gap be	tween piston and
	(A)	'O' rings (B)	Oil scraper rings	•
	C	Compression rings (D)	'G' link	•
• •.	•		••	•
β		17		SIFT/16
۲	•	••	. '	[Turn over
			- ,	

The temperature to which the fuel has to be heated to produce sufficient vapour to ignite

when brought in contact with flame is termed as

Distillation temperature

(A)

	liquio	l leaving the impeller i Vortex	s called . (B)	Grid				
	(0)			Casing				
*	(C)	Bilge	(D)	Casing				
82.	b.	amount of energy or wo	ork required to raise 7	5 kilogram of weight through one meter i				
	(A)	Watt	(B)	Newton				
	SCH	Horse power	(D)	Kilowatt				
	,		•					
83. ,	The f	formula $\frac{2\pi NT}{4500}$ where	N = rpm $T = Torque$	is used to estimate				
	(A)	SHP ·	(B)	EHP				
	(2)	ВНР	(D)	THP				
		•						
84.		effective horse power i ng speed and	s the sum of HP requ	ired to overcome the hull resistance at th				
	(A)	HP required to overc	ome frictional resistar	nce at the propeller shaft				
	(B)	HP required to overc	ome frictional resistar	nce inside the cylinder				
•	100	HP required to overc	ome the drag of the tr	awl gear				
	(D)	HP required to ove currents	rcome the resistance	caused collectively by wind, waves an				
85.		can be	defined as the prod	cess of organising people and resource				
	effectively, so as to direct activities towards the common goal and objectives							
	100	Administration	(B)	Leadership				
	(C)	Coordination .	· · · (D)	Supervision				
0.0	m e	114.4	of the engine o walve	provided on the exlinder head to reduce the				
86.		oression pressure is	or me engine, a vaive	provided on the cylinder head to reduce the				
	COHI	. -						
	COM	De-compression valv	re (B)	Starting valve				

9 7.	The outer frame of the generator is called	l as	•
	(A) Brush	0	Yoke
	(C) Armature	(D)	Commutator
88.	The general term for the propagation of s	ound in	water is
	(A) Hydrodynamics	(B)	Hydroelectricity
,	Hydroacoustics	(D)	Hydromechanical
89.	Expand SONAR	-	
•	(A) Sound Nautical And Ranging	(B)	Solar Navigation And Ranging
•	Sound Navigation And Ranging	(D)	Sound Navigation And Radiation
90	Which part of Echosounder generates ele	ctrical pi	ılse at a particular frequency?
	Transmitter	(B)	Transducer
	(C) Receiver	(D)	Recorder
01		, · J!	2
91.	The equipment which is working with rac	aio wave	RADAR
	(A) SONAR (C) Net Sonde	(D)	Echosounder
•	(C) Net Bonde	, (12)	Echosouliuei
92.	Which of the following instrument is used	I to meas	sure the specific gravity of the electrolyte o
· .	battery?	·	
	(A) Hygrometer	(B)	Ammeter
	(C) Voltmeter	100	Hydrometer
93.	Which of the following chemical acts as d	epolarise	er in dry cell?
•	(A) Carbon rod	(B)	Zinc sheet
•	Manganese dioxide	(D)	Sulphuric acid
0.4	01		
94.	Ohm meter is used to measure	/ID \	The electrical power
	(A) The electrical energy(C) The electrical current	(B) Æ	The resistance of dead circuit
	(C) The electrical current	10	THE TODISMINE OF GUAR CITOTIV
(1)		-1 6 6	, CID 1171 <i>E</i>

95.	The LH and FSH in fish are						
	(A)	Growth hormones	· · .	(B)	Adrenal Cortical steroids		
٠	SO	Gonodotropins	. ,	(D)	Estrogens .		
96:	A set		cted to the fishe	s and a	equatic stages of amphibian is		
	(A)	Facial nerve		(B)	Acoustic nerve		
	(C)	Vagous nerve			Lateral line		
97.	In sh	arks the eggs are stro	ngly				
	(A)	Isolecithal	٠	(3)	Telolecithal		
	(C)	Holoblastic		(D)	Meroblastic		
-	•		•				
98.	The	copulatory organ prese	ent in male gupp	y is cal	lled		
•	(A)	Gonad		(2)	Gonopodium		
	(C)	Spermatophore		(D)	Clasper		
99.	Fish	es from deeper waters	in general fill th	ne gas l	pladder mostly with		
	(A)	Nitrogen		(2)	Oxygen		
	(C)	Carbon dioxide		(D)	Ammonia		
100.	Scor	pion fishes do not have	e venom glands i	n the s	spines of		
	(1)	Pectoral fin		(B)	Pelvic fin		
	(C)	Dorsal fin		(D)	Anal fin		
101.	An e	xample for protandric	hermaphrodites	, being	male first, female later is		
	(A)	Perca ·		(B)	Micropterus		
	(2)	Serranus		(D)	Stizostedion		
100	Δ Δ	Air breathing structure	nnogont in alimi	hina na			
102.	(A)	or breathing structure Otolith	bresem in cum	omg pe (B)	Statolith		
		Pituitary .		(12)	Labyrinth		
	(C)	1 Iuutary	•		anny Lillui		

103.	Pouc	h-gills are present in		•
	La grand	Jawless fishes	(B)	Rays
	(C)	Sharks	(D)	Chimaeras
		•	٠	
		, ,		•
104.	The s	shark skull is composed of		
		Single unit cartilage		•
	(B)	Double unit cartilage		
•	(C)	Multiple unit cartilage	:	· ·
	(D) .	Well developed bone		
	•			
105.	ТЬО	modern bony fishes had their origin a	s long a	s
109.	(A)	300 million years	or and a	200 million years
	` -	500 million years	(D)	100 million years
	(C)	500 minon years	(2)	100 11111111111111111111111111111111111
106.	Toxi	ns produced by moulds on fish feed u	nder hu	mid and high temperature are called
	(A)	Botulism	(B)	Cyanogen
	(C)	Peroxide	(0)	Aflatoxins
			·	•
٠.	•		_	
107.	· The	reciprocal of feed conversion ratio exp	pressed	in percentage is called
	(A)	Condition factor		
	(B)	Growth conversion efficiency	•	
	(C)	Instantaneous growth rate		
	. 500	Feed conversion efficiency		
	•	•	٠	
,	rni.	· · · · · · · · · · · · · · · · · · ·		
108.	The	scientific name of giant gourami is	(B)	Trichogaster pectoralis
		Osphronemus goramy	(B)	Anabas testudineus
	(C)	<u>Helostoma temmencki</u>	(D)	Anabas testudineus
				·
109.	Gov	idsagar reservoir is present in the Sta	ate of	· .
100.	(A)	Uttar Pradesh	(B)	Andhra Pradesh
	(C)	West Bengal		Punjab
	, (5)	11000 201200		

110.	The c	chemical formula for the	fish poison A	ddrin is			_
	(4)	$\mathrm{C_{12}H_{8}Cl_{8}}$		(B)	$\mathrm{C_{12}H_8Cl_8O}$		
	(C)	$\mathrm{C_{12}H_{8}Cl_{6}O}$		(D) _.	$\mathrm{C_{12}H_8Cl_{10}}$	•	
111.	The	ecotone or buffer zone b	etween fresh	water	of the stream a	nd salt water	of the sea is
	calle					•	
	(A)	Fjord		(B)	Back water	•	
	(C)	Lagoon	•	(D)	Estuary	•	
		•				•	
112.	The l	largest river system in In	ndia is		•	,	
,	(A)	Yamuna		(D)	Ganga		
	(C)	Godavari	٠.	(D)	Brahmaputra	÷	·
113.	In fis	sh population dynamics,	the yield per	recruit	model of Bever	ton and Holt i	s an example
	(A)	Holistic model				•	
	0	Analytical model				•	
	(C)	Surplus production mo	del	٠		•	
	(D)	Virtual population ana	lysis	•	• •		
				•			
114.		rate of change in the dep ted by	endent varia	ble per	unit change in	the independe	nt variable is
		•					•
	(B)	'F" value			•	, ř	
	100	Regression co-efficient	,		•		
	(D)	't' value	•			•	
		•		•			,
115.		positive square root of vation from their arithm			_	of deviations	of the given
	(A)	Mode				•	
	(B)	Median				,	•
•	100	Standard deviation	•	•			•
•	(D)	Standard error	•				•
	. ,						•

	•	the following four is no
116.		ng the species that constitute lobster fishery of India, one of the following four is no es belong to spiny lobster group
	(A)	Panulirus homarus
		Thenus unimaculatus
	(C)	Panulirus polyphagus
	(D)	Panulirus ornatus
	(3)	<u> </u>
117.	The f	lying fish fishery of India is limited to
	(A)	Bay of Bengal of Tamil Nadu
	(B)	Kerala coast
•	LC Y	Coromandel coast of Tamil Nadu
	(D)	Karnataka coast
	.	th of the following comes under organic manure?
118.	Wnic	
	(7)	Cow dung
	(B)	Urea
	(C)	Super phosphate
	(D)	Ammonium sulphate
	•	
119.		is an example for price strategy element of marketing mix.
		Discount
	(B)	Transport
	(C)	Advertising
	(D)	After sales service
		and the second figure of India as the
120.	. Oil s	sardine is an important fish that constitutes notable marine fishery of India as the
	(41)	Pelagic fishery resource
-	(B)	Demersal fishery resource
	(C) .	Deep sea fishery resource
	(D)	Estuarine fishery resource

121.	The	irection of any celestial body from the	obser	ver is called as
٠.	(A)	Zenith		Azimuth
	(C)	Bearing	(D)	Nadir
122.	Smal	l circles on the earth running parallel t	o and	northward or southward of the equator are
	called	•		and the of south and of the odderor are
•	·(A) .	Meridians	•	
	(1)	Parallels of latitude		•
•	(C)	Rhumb lines		
	(D)	Isogonic lines		
				•
123.	Α τζες	sel engaged in fishing other than trawl	ing èl	aall oybibit
120.	A Ves	Two all round light in a vertical line,	-	•
	(B)			
	(C)	Two all round light in a vertical line to Two all round light in a vertical line to		
	(D) ·	Two all round light in a vertical line t		
•	(D) ·	i wo an round nght m a vertical mie t	ne ub	per being winte and lower red
124.	Equip	oment used to stabilize the position of t	he ve	ssel in relation to the sea bottom is
•	(A) ·	Winch	(B)	Windlass
	SO	Anchor	(D)	Line hauler
125.	In no	rmal weather "Daily weather bulletins"	'are s	sent — a day
	(A)	One time	D	Twice
	(C)	Thrice	(D)	Four times
			` ,	
400			_	
126.		eposition of ice crystals on exposed sur	faces 	
	(A)	Dew		Hoar frost
	(C)	Glazed frost	(D)	Rime

•		and the standard of the standard is called as
127.	The g	geometric centre of the water plane area at which the ship is floating is called as
. :	(A) .	Centre of buoyancy
•	(B)	Centre of gravity
	(0)	Centre of floatation
	(D)	Metacentre floatation
	•	
128.	The o	difference between the depth and draft of a vessel is called as
• .	(4)	Free board
	(B)	Camber
	(C)	Breadth
	(D)	Draught
		horizontal distance between the forward and aft perpendicular of a boat is called as
129.		
	(A)	Forward perpendicular
		Length between perpendicular
	(C)	Aft perpendicular
	(D)	Mean draft
130.	In t	he preparation of chitin ———— process is not involved
	(A)	Deproteinization
	(B)	Demineralization
•	(C)	Deacetylation
•	(D)	Decarboxylation
131.	The	main component of fish skin is
	· 500	Collagen
•	· (B)	Gelatin

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(C)

(D)

Shagreen

Factice

(A) A and B (C) B and D (D) B and C 133. Catla mainly feeds on (A) Zoo Plankton (B) Phyto Plankton (C) Plant debris (D) Aquatic plants 134. In line fish transport, which of the following method is not in practice. (A) Plastic bag method (B) Waterless method (C) Tunnel method (D) Tank method 135. From the following pairs, choose the incorrect pair (A) Hot air dryer - Kiln dryer (B) Contact dryer - Drum dryer (C) Solar dryer - Tent dryer (C) Solar dryer - Rack dryer 136. Which of the following attribute of fish that does not affect the falling rate period of dry (A) Fat content (B) Water content (C) Shape of fish (D) Protein content	Fish liver oil is rich in vitamins							
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(C) Solar dryer - Tent dryer Artificial dryer - Rack dryer Which of the following attribute of fish that does not affect the falling rate period of dry (A) Fat content (B) Water content (C) Shape of fish								
Artificial dryer - Rack dryer Which of the following attribute of fish that does not affect the falling rate period of dry (A) Fat content (B) Water content (C) Shape of fish	• •							
136. Which of the following attribute of fish that does not affect the falling rate period of dry (A) Fat content (B) Water content (C) Shape of fish	•							
(A) Fat content(B) Water content(C) Shape of fish								
(A) Fat content(B) Water content(C) Shape of fish								
(A) Fat content(B) Water content(C) Shape of fish	··· ~?							
(B) Water content (C) Shape of fish	mg:							
(C) Shape of fish								
Protein content								
137. Which type of smoking is popular in India?								
(A) Liquid smoking								
.Hot smoking								
(C) Electric smoking								
(D) Cold smoking								

loo.	Scien	time name for suver po	шрано в			•	•
	-	<u>Trachinotus</u> <u>blochii</u>	-			•	•
	(B)	<u>Trechanatus</u> <u>blachii</u>	·	٠		•	
٠.	(C)	Trachinotus homarus	<u> </u>		', ·		•
	(D)	Panulirus ornatus			• •		
			, ,			••	,
L39.	-	DA paved the way	for establish	nent (of number of	private hat	cheries after
	(4)	TASPARC and OSPA	RC .	•			
	(B)	NETFISH					•
	(C)	CMFRI	•				
	(D)	RGCA and CIBA	•	,			
				•			
1.40	,	is defined	es setting port	orman	ce expectations	and goals fo	r grouns and
140.	indiv	iduals to channels thei					r groups and
••	(A)	Coordination			Planning		•
	(C)	Administration		(D)	Supervision		
		,	• • • • • • • • • • • • • • • • • • • •	, ,	-		
				,	•		
141.		——— is defined a	s the act of mal				
•	(A)	Administration		(B)	Guiding		٠.
•	SC.	Legislation		(D)	Coordinating		
				,	•	,	
142.	Exar	nples for non-aquatic li	ve feed is				
	(A)	Avanti Bact		0	Bloodworm		•
	(C)	Artemia		(D)	Rotifer		, ,
	• •	. ~	·				•
						1	
143.	The i	number of eggs produce	ed per kg comm			preeding seas	SON
		150,000		(B)	10,000		
•	(C)	75,000		(D)	900,000	,	

144.	The c	common name of <u>Penaeus merguiens</u>	is is	•	
٠, .	(A)	White shrimp	(25)	Banana shrimp	•
	(C)	Kuruma shrimp	(D)	Redtail shrimp	
145.	The c	common name of <u>Clarias gariepinus</u>	•		
	· (A)	Asian catfish	(B)	American catfish	
	(C)	Amur catfish .	97	African catfish	;
146.	(a)	Monk is a pond outlet.		•	
	(b)	It should be made only with concre	te and n	o other material can be u	.sed.
	(A)	(a) and (b) are wrong		·	
	(B)	(a) and (b) are correct			
	. (0)	(a) is correct (b) is wrong		.• .	
	(D)	(a) is wrong and (b) is correct	•		. •
					•
147.	(a)	Pen and cage are used for fish cult	ure.		
•	(b)	Both are different in structure.	•		•
	(A)	(a) is wrong and (b) is correct	·	•	
	(B)	(a) is correct and (b) is wrong			
	15	(a) and (b) are correct			
	(D)	(a) and (b) are wrong	•	•	
	•				·
148.	The :	most suitable pH of water for aquacu	lture fa	rms is considered to lie in	the range
	(A)	5.5-6.0	_	6.7–8.6	, •
	(C)	9.0-9.2	(C),	4.5-5.5	,
149.	(a)	Amino acids in the diet are absorb	ed in the	e body of the fish and util	ized for growth.
110.	(b)	Amino acids are building tissue in		•	
	(A)	(a) and (b) are wrong		•	•
	(23)	(a) and (b) are correct			
	(C)	(a) is correct and (b) is wrong			•
	(D)	(a) is wrong and (b) is correct			
	(1)	(a) to intome arra (b) to control	_		

150.	Marce	il cephalus and chanos chano	s are com:	monly	 called as —	,		and	
190.		<u>ectively.</u>			·			•	
		Mullet and Milk fish	٠,		•	·			
	(B)	Milk fish and Mullet			•		•	,	
	(C)	Mullet and Yellow tail							
	(D)	Yellow tail and Mullet	•		. •	•		•	
					•				
		6.1	•						
151.		scientific name of the mirror		•				•	
•	(A)	Cyprinus carpio var. comm							
	(2)	Cyprinus carpio var. specul							
	(C)	Cyprinus carpio var. nudus			/			•	
•	(D)	Cyprinus carpio var. Flavip	<u>innis</u>		. •	•	•	. ' ,	. XV
			,			• .			•
152.		trade winds which blow from in the northern hemisphere r						and from	the north
	(A)	Equatorial counter current	s						÷
•	.(B)	Labrador current					•	,	•
	ich	Equatorial currents			,			,	
	(D)	Florida current	•						•
•	•								•
153.		pular warm water current sa e coastal waters of Peru is ca		esponsi	ble for the	reduce	d popu	ılation of	anchovies
	(1)	El Nino current	•						
	(B)	La Nina current	,				•		
	(C)	Alaska current .			•			٠	
	(D)	California current	•		•		:	•	·
	•	,			•	`			
154.		n the Earth-Moon-Sun syster ition is called	n is align	ed in s	traight line	and t	ne tide	caused ı	ınder such
	-	Spring tide		(B)	Neap tide				•
	(C)	Food tide	•	(D)	Ebb tide				•
	(5)	2002		,-,		,			

155.	Unlike freshwater, sea water at 35 ppt continues to increase in density until it freezes at a temperature of								
	(A)	4°C		(B)	0°C		1		
	(Ċ)	-4°C	•	(P)	−1.9°C			•	
		•				,		•	
			<i>:</i>		,				
156.		quantity of heat absorbed of unit mass of a materia		vithout	change o	f temper	ature dur	ing a chan	ige of
•	(A)	Specific heat		(T)	Latent h	eat			
	(C)	Sensible heat		(D)	Absolute	e heat			
• •		•	•		• .		•		
157.	In th	e biogenous sediment fori	mation, forar	ninifer	s are resp	onsible fo	or the for	mation of	
		Calcium carbonate		(B)	Silica	·			
	(C)	Manganese	,	(D)	· Iron	•			
			-						
		•					- 0		
158.	The India	new Eastern trade rate : a by	from Europe	to As	ia was es	tablished	i after th	e expediti	on to
	(A)	Christopher Columbus				•	•	×	•
	01	Vasco da Gama	•			•		,	
	(C)	Ferdinand Magellan							
	(D)	James cook		,	,	•		·	
		•	•	1	•			.•	
			_						
159.	The	planet Earth is covered by	y Oceans as 1	nuch a	S			,	
	(1)	70.8% of its surface							د
	(B)	80.8% of its surface	•					•	
	(C)	60.8% of its surface			<i>;</i>				-
	(D)	50.8% of its surface	•						
		•	•		•				
160.	The	power required to overcon	ne the hull r	esistan	ce in a bo	at is call	ed .		
,	(A)	Brake horse power			•				
	(A) (D)	Effective horse power			•			•	
		•			•		•	. ,	
	(C)	Indicated horse power		•	,	,	•		
	(D)	Thermal horse power	•		·				

161 .	The	ble containing the details of lines-drawing of a boat is called
	(A)	Hydrostatic table
	(B)	Lines of plan table
,	(8)	Off set table
	(D)	Half breadth plan table
162.	The	verlapping joint of wood during boat construction is called
		Lap joint
	(B)	Scarf joint
	*(C)	Butt joint
	(D)	Keel joint
-		
163.		netal used as sacrificial anode in vessels constructed with Aluminium or steel to
	nrev	nt corrossion is
	prev	rit corrossion is Zinc (B) · CU
		Zinc (B) · CU
. •	(C)	
	(C)	Zinc (B) · CU Mg (D) Stainless steel
164.	(C)	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is
164.	(C) The	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum
164.	(C) The (B)	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum Poly Venyl Alcohol
164.	(C) The (B) (C)	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum Poly Venyl Alcohol Poly ethylene
164.	(C) The (B)	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum Poly Venyl Alcohol
164.	(C) The (B) (C)	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum Poly Venyl Alcohol Poly ethylene
164. 165.	(C) The (B) (C) (D)	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum Poly Venyl Alcohol Poly ethylene
	(C) The (B) (C) (D)	Zinc (B) CU Mg (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum Poly Venyl Alcohol Poly ethylene Polyester
	(C) The (B) (C) (D)	Zinc (B) CU (D) Stainless steel asic molecule present in the PA 6 is Poly-Carpolactum Poly Venyl Alcohol Poly ethylene Polyester as are attached in the foot rope of

(D)

Ring seine

166.	Chin	ese dip net is a type of		3				
	(A)	Gill net						
	97	Lift net				٠,		
	(C)	Tangle net	•		·		•	
•	(D)	Drag net						
		• •						
167.	Thos	specific gravity of poly ethylene and p		- 	will be			
101.	AND S	•	hora brol	рутепе .	мш ре			
		Less than one	•					
	(B)	More than one	•		•	•		
	(C)	More than 0.95	٠			,		
	(D)	Equal to one						
		•	•	٠.			•	
168.	A cah	led yarn is otherwise called as		•			•	
100.		Strand.						
	(A)	S	•			•		•
		Twine	•					
	(C) ·	Folded yarn	•		•			
	(D)	Yarn			•		•	•
	•				, _	•	•	
169.	Netti	ng material with high sinking speed	and hig	h break	king st	rength i	s ideal :	for making
	(A)	Trawl net	_		_		•	7.
	(B)	Long line						,
•	(C)	Dip net						
	Con la constitución de la consti	Purse seine		•			•	•
,				٠.	•			
			•	•				
170.	Speci	fic gravity of steel used for boat build	ding is					
	(A) ,	2.0	(B)	3.0				
	(C)	5.6		7.8				,

●. 171.	Adva	ntages of sol	e proprieto	rship i	nclude all o	f the follov	ving excep	t ·
:	(A)	Speedy dec	•		•		,	
	(B)	Easy incep						, ,
	(C)·	Transcendi	,*	ecrets				
•	(O),	Shared res						
•		Dilaica 105	·		•			•
		•	<i>,</i>	•	•			f
172.	In th	e process of 1	new produc	t deve	lopment tes	t marketir	ıg is neces	sary to
٠,	(A)	Identify po	tential cus	tomers	- -		•	•
	STOP I	Pretest bef	ore mass p	roduct	ion		-	
	(C)	Keep ready	in bound	logistic	es	•		,
	(D)	Conduct m	arket resea	arch	•			
		·	· ·		,	- -		
173.	War	ehousing of fi	ishery prod	lucts cı	eates —	uti	lity	•
•	(1)	Time					:	•
	(B)	Place		•	•	, !		•
٠.	(C)	Form			· :			
•	(D)	Possession				-		
	• •		•	·,	*			
174.	Mat	ch the followi	ing `				_	
	(a)	Land		1.	Wage		•	
	(b)	Labour		2.	Profit	•		
	(c)	Capital		3.	Interest	-		••.
	(d)	Organizatio	on .	4.	Rent	٠		
	•	(a) (b)	(c)	·(d)				
	SA P	4 1	3	2		•		
	(B)	3 4	1	• 2	• .			
	(C)	1 3	2	. 4	•		-	
	. (D)	2 1	4	3	•	•	•	•

175.	One	of the leading pr	oducing st	ates of An	chovies i	n India i	s		_
	(A)	Pondicherry							
	(B)	Karnataka	` .				,		
	(C)	Orissa		•			•		
•	(6)	Kerala	•					•	
	,		`		•		•		,
	.					_	<u>-</u>		
176.		ted or semi isola t of fresh water is		s of shallo	w coastal	l water t	hat do no	receive an ap	preciable
	(A)	Bay							•
		Lagoon	,			•			
	(C)	Estuary							
	(D)	Salt Marsh							•
	(-)			•	•			•	
·									
177.		nically contructe ea is called	d rock str	ucture cre	eated by	carbonat	e secreting	g animals and	plants in
	(4)	Coral reef	•						
	(B)	Limestone	•	;	•				
	(C)	Corallite		•					
	(D)	Polyp	•			•			
•			•						
	703			•		·			•
178.	The r	marine Cat Fish	belong to t	the genus					
_	(22)	Arius .					٠.		
	(B)	Lactarius	,				•		
	(C)	<u>Gnathanodon</u>		. 1	•				
	(D)	<u>Lates</u>	•		•				•
179.		idering the rich l thukudi and Dha					off the Ta	milnadu coast	between
	(A)	Pearl bank						•	
•	(B)	Coaral region							
	(6)	Marine Nationa	al Park			•	•		
	(D)	Sea grass regio							-
	(-)		·	٠.		•	•		
		• •	•						

180.	Reversing the firing order of the engine is difficult in the case of								
	A	Four stroke engines	(B)	Two stroke engines					
	(C)	Diesel engines	(D)	Petrol engines					
-									
181.		e four stroke diesel engine the inlet position during	valve is i	in open position and the exhaust valve is in					
		suction stroke	(B)	compression stroke					
	(C)	power stroke	(D)	exhaust stroke					
182.	The calle	-	the velo	city of exhaust gases in a diesel engine is					
	(12)	Turbo charger	•						
•	(B)	Rotary compressor							
	(C)	Turbine							
	(D)	Naturally aspirated engine							
•									
183.		r long period of operation of air comp tubes of the inner coolers are accum		the delivery valves inside the cylinders and					
•	(A)	oil	· (B)	dust					
•	100	sludge	(D)	water					
			•						
184.	Petro	ol engines are working based on the	thermody	ynamic cycle namely					
	(A)	Diesel cycle		Otto cycle					
	(C)	Duel cycle	(D)	Four stroke cycle					
		•	•						
185.	Δ ha	aring fitted inside the fishing host t	o transm	it the thrust from the propeller to the hul					
100.	is cal			The same same properties and the same same same same same same same sam					
	(A)	Ball bearing	(B)	Main bearing					
,	100	Thrust bearing	(D)	Epicyclic bearing					
186.	Powe	er block is a fishing device mainly us	ed in						
	(A)	Trawler	(B)	Gill netter					
	(C)	Long liner		Purse seiner					

One Watt is equal to								
(1)	1 Joule/Sec	(B)	10 Joule/Sec					
(C)	100 Joule/Sec	(D)	1000 Joule/Sec					
The	source of electricity in thermocouple is	. '	·					
(A)	Light	(P)	Heat					
(C)	Friction	(D)	Magnetism					
Unit	for measuring current is		·.					
(A)	Volt	· (B)	Watt					
(C)	Ohm	DY	Ampere					
The 1	total number of protons in the nucleus o	of an a	atom is called as					
	•		Atomic Weight					
(2)	•	` ′	Molecular Weight					
•		()	and the state of t					
The liquid conductor in an electrolysis is called as								
(A)	Electrodes	B	Electrolyte					
(C)	Diluter	(D)	Diffuser					
In lea	ad acid cell ——————————————————————————————————	anode	e .					
42	Lead Peroxide	(B)	Lead Sulphate					
(C)	Lead Carbonate	(D)	Lead Nitrate					
Which of the following is acting as negative plate in lead acid cell?								
(A)	Lead Peroxide	(B)	Silver Nitrate					
100	Pure Spongy Lead	(D)	Treated Wood					
	(C) The (A) (C) The (A) (C) The (A) (C) The (C) Which	The source of electricity in thermocouple is (A) Light (C) Friction Unit for measuring current is (A) Volt (C) Ohm The total number of protons in the nucleus of Atomic Number Atomic Number The liquid conductor in an electrolysis is call (A) Electrodes (C) Diluter In lead acid cell———————————————————————————————————	(C) 100 Joule/Sec (D) The source of electricity in thermocouple is (A) Light (C) Friction (D) Unit for measuring current is (A) Volt (B) (C) Ohm (D) The total number of protons in the nucleus of an analysis (A) Molecular Number (B) (C) Atomic Number (D) The liquid conductor in an electrolysis is called as (A) Electrodes (C) Diluter (D) In lead acid cell———————————————————————————————————					

194.	To m	ump liquids containing impuritie	es and sewa	ge water, the type of im	peller most suited
194.		entrifugal pump is	ob bila bon a		•
	(A)	Semi – open impeller		Open impeller	
	(C)	Closed impeller	(D)	Vortex	
			•		
195.	The p	property of liquid which tends to	o oppose rela	tive motion between its	different layers is
	(A)	Density	(2)	Viscosity	
	(C)	Specific gravity	(D)	Venturi effect	
: 196.	The 1	resistance and current are invers	sely proportion	onal to each other is exp	lained by
	(A)	Faraday's law	(B)	Lenz's law	
		Ohm's law	(D)	Fleming's law	
•		. •	. •		
197.	The	type of power obtained from batt	eries and sol	ar cells is	
	·(A)	AC		DC .	
	(C)	NC	(D)	KC	
			• 1		•
100	The	material which conduct electricit	w in the onti	on is	
198.	(A)	Rubber	y in the open	Copper	•
	(C)	Mica .	. (D)	Wood	
	(0)	Wilca	. (-)		
			6 37 11 1		h
199.	The is ca	circuit designed to reproduce fai illed as	thrully the 1	niormation transmitted	by the transmitter
•	(A)	Transducer	(B)	Modulator	
•	(C)	Aerial antenna		Radio receiver	÷ .
	()				
200.	mho.	correct expansion for an acronyn	n AVR is		·
200.	(A)	Automatic Voltage Reserve		l ,	· · ·
	, -	Average Voltage Regulator		• •	
	(B)	Automobile Voltage Regulator		-	
•	(C)	Automobile Voltage Regulator	, 4		
		Autománic vortage negurator			•

SIFT/16 [Turn over