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1.	Deepest parts of the oceans are called :											
	(A)	Mid-ocean rid	ges		(B)	Sear	nount					
	(C)	Trench			(D)	Con	tinental shelf					
2.	The	most abundant	compo	nent of sea	water	is:						
	(A)	Chlorine	(B)	Sulphate		(C)	Sodium	(D)	Potassium			
3.	The	average speed o	of sound	in the ocea	an is :							
	(A)	200 m/s	(B)	800 m/s		(C)	1500 m/s	(D)	2500 m/s			
4.	The	layer where oce				P 10 C 10						
	(A)	Halocline	(B)	Pycnocline	e	(C)	Thermocline	(D)	SOFAR channel			
5.	On t	he average, sea	surface	salinity is:								
	(A)	Maximum at t	he equa	ator	(B)	Max	imum around 3	30 degre	es latitude			
	(C)	Maximum at p	ooles		(D)	Non	e of the above					
6.	Heat	Heat lost by sea due to evaporation is called :										
	(A)	Shortwave rac	diation		(B)	Long	gwave radiation	ı				
	(C)	Latent heat			(D)	Sens	ible heat					
7.	If the time taken by a sound pulse to travel from the sound source at sea surface to the ocean floor and back is 3 seconds, then the approximate ocean depth is :											
	(A)	2250 m	(B)	4500 m		(C)	9000 m	(D)	9500 m			
8.	Cori	olis force at the	equator	ris:								
	(A)	Maximum			(B)	Zero						
	(C)	Varies with lo	ngitude		(D)	Vari	es with depth					
9.	Win	d stress is propo	ortional	to:								
	(A)	Wind speed			(B)	Squa	are of wind spe	ed				
	(C)	Cube of wind	speed		(D)	Square root of wind speed						
10.	In th	ne ocean, light is	ntensity	:								
	(A)	Increases linea	rly wit	h depth								
	(B)	Decreases line	arly wi	th depth								
	(C)	Increases expo	nential	ly with dep	oth							
	(D)											

11.	The major limiting nutrient in culture ponds:									
	(A)	Phosphorus	(B)	Nitrogen		(C)	Potassium	(D)	Calcium	
12.		te hepatopancrea			se, po	pular	ly known as	Early mo	rtality syndrome	is
	(A)	Indian major c			(B)	Mac	robrachium ro	senbergii		
	(C)	Penaeus vannan			(D)		gasius sp.	0		
13.		has to be	applie	ed to ponds	to in	crease	pH after stoo	cking of f	ishes/shrimps.	
	(A)	Quick lime			(B)	Agr	icultural lime		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(C)	Gypsum			(D)	Slak	ed lime			
14.	Peas	oup green colou	r of wa	ater is often	assoc	iated	with this alga	ie:		
	(A)	Microcystis	(B)	Anabaena		(C)	Euglena	(D)	Spirogyra	
15.	The	paddle wheel ae	rator c	rommonly u	sed ir	shrii	mp culture po	nds is an	example of :	
	(A)	Gravity aerator			(B)	Diff	user aerator			
	(C)	Surface aerator	r		(D)	Buch	ket dissipater	type		
16.	Ova	prim used for fis	h bree	ding consist	s of:					
	(A)	Natural salmor	GnRI	H						
	(B)	Pituitary extrac	et and	domperidor	ne					
	(C)	Synthetic analo	gue of	sGnRH						
	(D)	Synthetic analo	gue of	sGnRH and	d don	nperio	lone			
17.	The number of days normally taken by Macrobrachium rosenbergii larvae to settle as post larvae at 28-32°C:									
	(A)	22 - 26 days	(B)	35 - 38 day	ys	(C)	15 - 18 days	(D)	32 - 35 days	
18.	The is:	scientific name o	f silve	r pompano,	the ca	ptive	breeding of w	vhich has	been standardize	ed
	(A)	Trachinotus mod	okalee		(B)	Epin	ephelus coioide	28		
	(C)	Rachycentron co	madum	I	(D)	Trac	hinotus blochii			
19.	A w	idely used cryop	rotecta	nnt for fish s	perm	atozo	a is :			
	(A)	Buffered forma	lin		(B)	Ethy	l alcohol			
	(C)	DMSO			(D)	Isop	ropyl alcohol			

20.	The members of this group of fishes are non - guarders scattering eggs:										
	(A)	Cichlids			(B)	Gou	ramis				
	(C)	Tetras and b	arbs		(D)	Gup	pies and mollie	S			
21.	The	zone of shallo	w water	near the sho	re is	called	:				
	(A)	Oceanic Prov	ince		(B)	Cont	tinental Shelf				
	(C)	Neritic Provi	nce		(D)	Cont	tinental Slope				
22.	Metl	hylene Blue is	a :								
	(A)	Basic dye			(B)	Acidic dye					
	(C)	Neutral dye			(D)	Non	e of the above				
23.	Whi	ch one of the f	ollowing	does not in-	dicate	a spe	ecies diversity i	ndex ?			
	(A)	H index			(B)	Shar	nnon diversity i	index			
	(C)	Pielou's even	ness		(D)	Mar	galef's index				
24.	An a	agent or a facto	or which	causes malf	orma	tion o	f an embryo is	known	as:		
	(A)	Carcinogen			(B)	Tera	togen				
	(C)	Mutagen			(D)	Alle	rgen				
25.	Ram	sar convention	n was he	ld in :							
	(A)	USA	(B)	India		(C)	Japan	(D)	Iran		
26.	IPC	C headquarters	s is locat	ed at:							
	(A)	New York	(B)	Geneva		(C)	London	(D)	Rome		
27.	Whi	ch one of the f	ollowing	is a keystor	ne spe		n a Kelp forest	?			
	(A)	Sea Otter	(B)	Starfish		(C)	Parrot fish	(D)	Shark		
28.	Wha	at is function o	f immers	sion oil in an	oil ir	nmers	sion objective o	f light n	nicroscope ?		
	(A)	Increase mag	gnificatio	n	(B)	Incre	ease resolution				
	(C)	Improve con	trast		(D)	Non	e of the above				
29.		Genetic material possessing the dual cap chromosomal entity is called:				ity to	exist either as	an extr	a chromosomal o		
	(A)	Episome	(B)	Autosome		(C)	Mesosome	(D)	Oxysome		
30.	Bioi	ndicators cove	r a wide	spectrum of	orga	nisms	serving as indi	icators c	of:		
		Water	(B)	Climate	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	(C)			Environment		

A

31.	Which one of the fo	llowing nutri	ent cycle is	considered as sedir	nentary	type ?	
	(A) Carbon cycle		(B)	Phosphorus cycle			
	(C) Nitrogen cycle		(D)	Manganese cycle			
32.	Fundamental status	of an organis	sm in its co	mmunity is known	as:	TILL ST	
	(A) Ecological nicl	he	(B)	Edaphic factor			
	(C) Trophic level		(D)	Primary producer			
33.	Which one of the fo	llowing organ	nisms posse	esses Aristotle's lant	ern ?		
	(A) Asterias	(B) Oph	iothrix	(C) Antedon	(D)	Echinus	
34.	Analytical characters	s are generall	y expressed	d in terms of :			
	(A) Chi-square tes	t	(B)	3 - point test			
	(C) 5 - point test		(D)	None of the above			
35.	BOD of the waste w	ater after sec	ondary tre	atment :			
	(A) Will increase		(B)	Will decrease			
	(C) Remain the sai	me	(D)	None of the above			
36.	Catla catla belongs to	the family:					
	(A) Cichlidae	(B) Cypr	inidae	(C) Scombridae	(D)	Mullidae	
37.	Larval form of lobste	ers is known a	as:				
	(A) Phyllosoma	(B) Mega	ılopa	(C) Veliger	(D)	Mysis	
38.	Which of the following	ng factors wil	ll affect the	Hardy - Weinberg	Equillibr	ium ?	
	(A) Genetic drift		(B)	Natural selection			
	(C) Mutation		(D)	All of the above			
39.	The maximum numb	per of individ	lual that ca	n be supported in a	a habitat	at a given ti	me is
	(A) Biotic potential		(B)	Carrying capacity			
	(C) Vital index		(D)	Aggregation			
40.	Which one of the foll	lowing countr	ry exerts m	aximum carbon foo	t print ?		
	(A) Norway	(B) Japan	1	(C) USA	(D)	India	
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#### 41. Potential benefits of MPA:

- (A) (i) Protection of marine species (ii) Protection of fixed, critical habitats (iii) Protection of coral reefs, estuaries
- (B) (i) Protection of marine species (ii) Protection of marine seas (iii) Construction of marineparks
- (C) (i) Construction of aquapark (ii) Construction of large marine aquarium
- (D) All the above

## 42. Motivation theories were proposed by :

- (A) (i) Frederick Herzberg (ii) Abraham Maslow (iii) Douglas Mc Gregor
- (B) (i) Max Weber (ii) F.W. Taylor (iii) Henry Fayol
- (C) All the above
- (D) None of the above

#### 43. Input controls are:

- (A) (i) Total Allowable Catch (ii) Individual Quotas (iii) Escapement Targets
- (B) (i) Fleet size (ii) Vessel capacity (iii) Fishing Effort (iv) Fishing area/Boat
- (C) (i) Gear Limitations (ii) Closed areas (iii) Closed seasons
- (D) All the above

#### 44. Output controls are:

- (A) (i) Gear Limitations (ii) Closed areas (iii) Closed seasons
- (B) (i) Fleet size (ii) Vessel capacity (iii) Fishing Effort (iv) Fishing area/Boat
- (C) (i) Total Allowable Catch (ii) Individual Quotas (iii) Escapement Targets
- (D) All the above

## 45. Rights in fishery systems:

- (A) (i) Open access (ii) Limited entry (iii) Trip limits
- (B) (i) Use rights (ii) Access rights (iii) Harvest Rights
- (C) (i) TURF (ii) Management rights (iii) Property rights
- (D) All the above

## 46. Sustainability in fishery systems includes :

- (A) (i) Ecological Sustainability (ii) Socioeconomic Sustainability
- (B) (i) Community Sustainability (ii) Institutional Sustainability
- (C) Both (A) and (B)
- (D) None of the above

- 47. International agencies involved in fishery management and development :
  - (A) (i) FAO (ii) UNDP (iii) IPFC (iv) IOFC
  - (B) (i) ICLAARM (ii) GFCM (iii) IUCN (iv) AIT
  - (C) (i) FAO (ii) UNDP (iii) IPFC (iv) CRY
  - (D) All the above

## 48. EU Regulation to prevent IUU:

- (A) Illegal, Unregistered and Unregulated fishing, entered into force on 1 January 2001
- (B) Illegal, Unrecorded and Unregulated fishing, entered into force on 1 January 2010
- (C) Illegal, Unregistered and Unregulated fishing, entered into force on 1 January 2010
- (D) Illegal, Unreported and Unregulated fishing, entered into force on 1 January 2010

## 49. Certifications in fisheries management :

- (A) (i) Catch certification (ii) Green certification (iii) MSC (iv) MAC
- (B) (i) ISO 9000 (ii) BRC (iii) HACCP (iv) ISO 22000
- (C) None of the above
- (D) All the above

## 50. Biological Diversity Act, 2002:

- (A) Act of the Parliament of India for Preservation of biological diversity in India
- (B) It provides mechanism for equitable sharing of benefits arising out use of traditional biological resources and knowledge
- (C) The Act was enacted to meet the obligations under Convention on Biological Diversity (CBD)
- (D) All the above

#### 51. KMFR Act, 1980:

- (A) Kerala Marine Fishing Regulation Act, 1980
- (B) Amended by Act 21 of 1991
- (C) An Act to provide for the regulation of fishing by fishing vessels in the sea along the coast line of the State
- (D) All the above

## 52. Trawl ban in Kerala in the year 2015 is for :

- (A) (i) 45 days (ii) June 15 to July 30 (iii) Not joined the uniform ban
- (B) (i) 47 days (ii) June 15 to July 31 (iii) Not joined the uniform ban
- (C) (i) 61 days (ii) June 1 to July 31 (iii) Uniform ban period for whole of India
- (D) (i) 47 days (ii) midnight of June 14 to midnight of July 31 (iii) Uniform ban period for whole of India

A

3		
53.	UNC	CLOS:
	(A)	The United Nations Convention on the Law of the Sea
	(B)	Law of the Sea Convention
	(C)	Law of the Sea treaty
	(D)	All the above
54.	Mats	syasamrudhi is a project of Kerala State fisheries aiming at :
	(A)	Integrated development of inland fisheries and aquaculture
	(B)	Implemented in 14 districts of the state
	(C)	Provided extension of Karimeen production in ponds, cages etc.
	(D)	All the above
55.	Dep	artments, Institutions and organizations under the fisheries department of Kerala:
	(A)	(i) Matsyafed (ii) FFDA (iii) BFFDA (iv) KFWFB
	(B)	(i) Marine Enforcement (ME) (ii) Harbour Engineering Department (HED)
	(C)	(i) Agency for development of Aqua Culture
	(D)	All the above - (A), (B) and (C)
56.	Red	line Torpedo Barb is :
	(A)	(i) Puntius denisonii (ii) Miss Kerala (iii) Indigenous ornamental fish
	(B)	(i) Top exported ornamental fish (ii) Exotic (iii) Cyprinid fish
	(C)	(i) Endemic (ii) Endangered (iii) Sahyadria denisonii
	(D)	(A) and (C)
57.	State	e fish of Kerala :
	2.0	www. t. t. t. (2) Correspondent (iii) Populariot

- (A) (i) Etroplus suratensis (ii) Green chromide (iii) Pearlspot
- (B) (i) Rastralliger kanagurta (ii) Mackeral
- (C) (i) Sardinella longiceps (ii) Sardine
- (D) (i) Miss Kerala (ii) Puntius denisonii (iii) Indigenous ornamental fish

# 58. Which species of prawn now dominates the exports from India ?

- (A) Penaeus monodon
- (B) Metapenaeus dobsoni
- (C) Parapeneopsis stylifera
- (D) Litopenaeus vannamei

# 59. Information about netmouth opening, depth and position of net relative to fish is found by:

- (A) (i) Net recorder (ii) Net sonde (iii) Trawl eye
- (B) (i) Gear monitoring system (ii) SONAR (iii) Ecogramme
- (C) (A) and (B)
- (D) None of the above

60.	SC	MY	A	D	1
UU.	100	72.N	2.2	r.	4

- (A) (i) Satellite Navigation and ranging (ii) Aimed purse seining and trawling (iii) Horizontally scanning echosounder
- (B) (i) Sound Navigation and ranging (ii) Aim purse seining and trawling (iii) Horizontally scanning echosounder
- (C) (i) Sound Navigation and radiating (ii) Aimed purse seining and trawling (iii) Horizontally scanning echosounder
- (D) All the above

## 61. Longlines are :

- (A) (i) Passive fishing gears (ii) highly fuel efficient (iii) Ecofriendly
- (B) (i) Gravel line (ii) Floats (iii) Sinkers (iv) Buoys
- (C) (i) Snood wire (ii) Sekiyama (iii) Branch line (iv) Buoy lines
- (D) All the above
- 62. On the basis of bio-physico characteristics seas have different zones :
  - (A) Pelagic zone, Benthic zone, Neritic zone, Oceanic zone
  - (B) Epipelagic, Mesopelagic, Bathypelagic, Benthopelagic
  - (C) None of the above
  - (D) (A) and (B)

## 63. Trolling is:

- (A) Passive fishing method
- (B) Active fishing method
- (C) Type of fishing craft
- (D) None of the above

## 64. Edible Oysters are :

- (A) Crassosotrea madrasensis
- (B) Crassosotrea cucullata
- (C) Crassosotrea discoides
- (D) All the above

## 65. Bombay duck, Harpodon nehereus (Hamilton) belong to the family :

(A) Syngnathidae

(B) Schilbeidae

(C) Sciaenidae

(D) None of the above

## 66. Commercially important catfishes in India belong to the family :

(A) Plotosidae

(B) Tachysuridae

(C) Both (A) and (B)

(D) None of the above

67.	Moll	luscan fisheries is	cons	ituted by th	e taxo	onom	ic class :					
	(A)	Lamellibranchi	a ·		(B)	Gas	tropoda					
	(C)	Cephalopoda			(D)	All	the above					
68.		ne a computer so quency distributi			lp of	which	n the fish stock as	sessme	ent by using length			
	(A)	ELEFAN	(B)	BIOEDIT		(C)	PRIMER	(D)	ARNEQUIN			
69.	Tota	l marine capture	fish p	roduction is	n Indi	a du	ring 2013 - 14 :					
	(A)	1.9 million tons	nes		(B)	2.1	million tonnes					
	(C)	3.4 million tons	nes		(D)	6.1	million tonnes					
70.	Tota	l inland fish pro	ductio	n in India d	uring	2013	- 14 :					
	(A) 3.14 million tonnes				(B)							
	(C)	5.14 million to	nnes		(D)	6.14	million tonnes					
71.	Fibrous protein present in connective tissue :											
		Actin	(B)	Myosin		(C)	Actinomyosin	(D)	Collagen			
72.	Complete oxidation of one molecule of glucose into CO <sub>2</sub> and H <sub>2</sub> O yields:											
	(A)	8 ATP equivale	ents		(B)	15 /	ATP					
	(C)	30 ATP			(D)	38 /	ATP					
73.	Fish	fat is nutritional	ly imp	oortant becu	ase of	the p	presence of :					
	(A)	PUFA	(B)	Glycerol		(C)	Phospholipids	(D)	Monoglycerol			
74.	Dry	ice is :										
	(A)	Freon			(B)	Liqu	uid ammonia					
	(C)	Liquid Nitroger	n		(D)	Soli	d carbon dioxide					
75.	Case	hardening is see	en in f	ishes during	g :							
	(A)	Freezing	(B)	Drying		(C)	Canning	(D)	Salting			
76.	Vibr	io parahaemolytici	us is fo	ound in :								
	(A)	Marine waters			(B)	Free	sh waters					
	(C)	Both of the abo	ve		(D)	Nei	ther of the above					

77.	HACCP is:											
	(A) Freezing technology developed by USFDA											
	(B) Freezing methods imposed by USFDA											
	(C) Quality management system imposed by EIA											
	(D)	Quality management s	ystem imposed	by USFDA								
78.	TQM means :											
	(A)	Total Quotient Manage	ement (B)	Total Quality Mar	nagement							
	(C)	Total Quadra Manager	ment (D)	Total Quantity Ma	anagement							
79.	Exp	ort Inspection Agency is	administered by	y Ministry of :								
	(A)	Agriculture (B)	Foreign trade	(C) Commerce	(D) F	oreign affair						
80.	The	ratio of ice to fish during	g icing is :									
	(A)	1:2 (B)	2:1	(C) 1.5:2	(D) 2	: 1.5						
81.	One	of the greatest literary v	works of Lalitha	ambika Antharjanam	ı:							
	(A)	Vishakanyak	(B)	Agnisakshi								
	(C)	Nalukettu	(D)	Oru Theruvinteka	tha							
82.	The	name of publication star	ted from Kozhi	kode in October 192	14:	and the state of						
	(A)	Al Islam (B)	Mathrubhumi	(C) The Deepika	(D) A	Al Amin						
83.	The credit for having laid the foundations of western eduction in Malabar area goes to :											
	(A)	CMS Missionaries	(B)	Prussian Missionai	ries							
	(C)	British Missionaries	(D)	Basel German Evan	ngelical Mis	ssionaries						
84.	The R.T.E Act was implimented in India on :											
	(A)	26 August 2009	(B)	10 July 2010								
	(C)	1 April 2010	(D)	30 March 2011								
85.	Whi	ch of the following is not	t a jurisdiction o	of the Supreme Cour	t?							
	(A)	Supervisory jurisdiction	n (B)	Appellate jurisdict	ion							
	(C)	Advisory jurisdiction	(D)	Original jurisdiction	n							
86.	Who	was the captain of the	Volunteer corps	of Guruvayur Sathy	yagraha mo	vement ?						
	(A)	A.K. Gopalan	(B)	K. Kelappan								
	(C)	T. Subramanian	(D)	T.K. Madhavan								

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87.	Who issued an order permitting the Channar woman, who become converts to Christianity to cover their bodies?										
	(A)	Rev. Mateer	(B)	Rev. Mead							
	(C)	Dr. Gundert	(D)	Col. Munroe							
88.	Who	o founded Samatva Sama	jam ?								
	(A)	Vaikunta Swami	(B)	Sree Narayana Guru							
	(C)	Swami Vagbhatananda	(D)	Chattampi Swami							
89.	The	power to increase the nur	mber of judges	in the Supreme Court of India is vested in :							
	(A)	The President of India	(B)	The Parliament							
	(C)	The Chief Justice of Indi	ia (D)	The Law Commission							
90.	Whe	en was Mangalyan launch	ned ?								
	(A)	26 January 2013	(B)	8 August 2013							
	(C)	11 October 2013	(D)	5 November 2013							
91.	Whi	Which unfortunate event took place in 1905 ?									
	(A)	Jallian Walla Bag massa	cre (B)	Surat Split							
	(C)	Partition of Bengal	(D)	Death of Bala Gangadhara Tilak							
92.	The (A) (B) (C) (D)	famous journalist mention G. Parameswaran Pilla G. Govinda Pilla Swadeshabhimani Rama V.K. Krishna Menon		biography of Mahatma Gandhi :	3						
93.	Who	among the following wa	s awarded the	Nobel prize in literature in 2014 ?							
	(A)	Shuji Nakumura	(B)	Edvard L. Mosev							
	(C)	Teju Cole	(D)	Patrick Modiano							
94.	Mah	ar Movement was initiate	ed by :								
	(A)	Jyotiba Phule	(B)	B.R. Ambedkar							
	(C)	Ram Mohan Roy	(D)	Atmaram Pandurang							
95.	Who	o is the recipient of the 49	th Jnanpith aw	ard ?							
	(A)	Firaq Gorakhpuri	(B)	V.K. Gokale							
	(C)	Kedarnath Singh	(D)	Natwar Singh							

96.	What is the power of the President not to take any action on a bill pending it for an indefinite period ?										
	(A)	Pocket Veto	(B)	Crossing		(C)	Ordinance	(D	) Pardo	on	
97.	Who	wrote "The Ac	cident	al Prime M	finiste	r : Tł	ne making a	nd unma	aking of	Manmohar	
	(A)	Anitha Nair			(B)	Joy	Battacharya				
	(C)	Sanjaya Baru			(D)	Fara	z Ahammed	l			
98.	Which poem of kumaranasan portrays the character of Mathangi ?										
	(A)	Karuna			(B)	Veer	napoovu				
	(C)	Leela			(D)	Cha	ndala bhiksh	nuki			
99.	The	summer Olympic	cs of 20	016 will be	held i	n:					
	(A)	South Korea			(B)	Geri	many				
	(C)	Brazil			(D)	Qata					
100.	The	National Women	s day i	is celebrate	d on t	he Bir	th day of :				
	(A)	Annie Besant			(B)		ra Gandhi				
	(C)	Kasturba Gand	hi		(D)	Marine .	jani Naidu				

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