JAMMU AND KASHMIR PUBLIC SERVICE COMMISSION

RESHAM GHAR COLONY, BAKSHI NAGAR, JAMMU - 180001

Website: http://jkpsc.nic.in email: coejkpsc2017@gmail.com

Jammu: 0191-2566533

Subject:

Conduct of Written Examination for the post of Fisheries Development Officer in Agriculture Production Department - Provisional Answer Key thereof.

Notification No. PSC/Exam/S/2024/27 Dated: 28.05.2024

In pursuance of Rule 10(c) of the Jammu & Kashmir Public Service Commission (Conduct of Examination) Rules, 2022, as amended upto date, the Provisional Answer Key of Question Paper pertaining to the **Written Test for the post of Fisheries Development Officer** held on **28.05.2024**, is hereby notified for seeking objections from candidates:

Provisional Answer Key

Test Booklet Question No. (Series A)	
Q1	В
Q2	В
Q2 Q3 Q4 Q5 Q6	Α
Q4	В
Q5	Α
Q6	В
Q7	Α
Q8	A B
Q9	Α
Q10	Α
Q11	С
Q12	С
Q13	A A C C A C
Q14	С
Q15	С
Q16	В
Q17	Α
Q18	A C
Q19	В
Q20	Α
Q21	A C
Q22	and the same of th
Q23	В
Q24	Α
Q25	В
Q26	С
Q27	С

Test Booklet Question No. (Series A)	
Q28	В
Q29	Α
Q30	Α
Q31	A A D C C A D A C B C
Q32	С
Q33	С
Q34	Α
Q35	D
Q36	Α
Q37	С
Q38	В
Q39	С
Q40	Α
Q41	В
Q42	В
Q43	D
Q44	D
Q45	Α
Q46	Α
Q47	Α
Q48	С
Q49	A A A C A B
Q50	В
Q51	В
Q52	D
Q53	D D C
Q54	С

	Question No.
(Seri	ies A)
Q55	В
Q56	B C A B D
Q56 Q57	Α
Q58	В
Q58 Q59 Q60 Q61 Q62	D
Q60	В
Q61	В
Q62	Α
Q63 Q64 Q65 Q66	В
Q64	Α
Q65	С
Q66	Α
Q67	С
Q67 Q68	Α
Q69	В
Q70	С
Q71	C
Q72	D
Q73	Α
Q74	Α
Q75	Α
Q76	С
Q69 Q70 Q71 Q72 Q73 Q74 Q75 Q76 Q77	В
Q78 Q79	Α
Q79	D
Q80	B A B A C A C A B C C D A A A C B A C D B C C B A C C C C C C C C C C C C C C C
Q81	С

	Question No. es A)
Q82	С
Q83	Α
Q84	С
Q85	Α
Q86	Α
Q87	Α
Q88	Α
Q89	В
Q90	D
Q91	Α
Q92	D
Q93	D
Q94	D

Test Booklet (Seri	
Q95	С
Q96	Α
Q97	Α
Q98	С
Q99	В
Q100	С
Q101	С
Q102	С
Q103	С
Q104	С
Q105	D
Q106	С
Q107	В

Test Booklet (Serie	
Q108	В
Q109	Α
Q110	В
Q111	Α
Q112	С
Q113	С
Q114	D
Q115	С
Q116	D
Q117	В
Q118	С
Q119	Α
Q120	D

The candidates are advised to refer to **Question Booklet** (**Series A**) to match the corresponding question(s) in their respective Question Booklet Series and if any candidate feels that the key to any of the question(s) is/are wrong, he/she may represent on prescribed format/proforma annexed as **Annexure-A** along with the documentary proof/evidence (**hard copies only**) and fee of Rs.500/- per question in the form of Demand Draft drawn in favour of **COE**, **J&K PSC** (refundable in case of genuine/correct representation) to the Controller of Examinations, Jammu & Kashmir Public Service Commission, from 29.05.2024 to 31.05.2024. **The candidates are further advised to clearly mention the question(s) objected to with reference to its serial number as it appears in the Question Booklet of Series A of the Provisional Answer Key.**

Further, any objection/application not accompanied by the requisite Demand Draft of Rs.500/- as prescribed, shall not be considered/entertained under any circumstances. Candidates are, in their own interest, advised to adhere to these instructions and not submit any objection unaccompanied by the Demand Draft as required under extant rules.

The Commission shall not entertain any such representation(s) after the expiry of the stipulated period i.e. after 31.05.2024 (Friday), 05.00 pm.

The provisional answer key is available on the website of the Commission http://www.jkpsc.nic.in.

ユ8・05・2024 (G.L Sharma), JKAS

Additional Secretary I&K Public Service Commission

Dated: 28.05.2024

No. PSC/Ex-Secy/2024/21

Copy to the: -

1. Director, Information and Public Relations, J&K for publication of the notice in all leading newspapers published from Jammu/Srinagar.

2. P.S. to Hon'ble Chairman, J&K Public Service Commission for information of the Hon'ble Chairman.

3. P.S. to Hon'ble Member, Shri ______ for information of the Hon'ble Member.

- P. A. to Secretary, J&K Public Service Commission for information of the Secretary.
 P.A. to Controller of Examinations, J&K Public Service Commission.
 Main file/Stock file/Notice Board.

Annexure-A

Representation regarding objection(s) to any Question/Answer pertaining to the Written Test conducted for the post(s) of Fisheries Development Officer on 28.05.2024

(NOTE: USE SEPARATE FORMS FOR SEPARATE QUESTIONS)

lame of the Ap	plicant :		
oll No. :			
orrespondenc	e Address :		
ontact/Mobile	e No. :		
ate of Applica		.05.2024	
emand Draft N	1		
	ount No.(16 digit) & IFSC Code		
	(
Question No. in Series A	Details of the Objection	Resource Material (copy to be enclosed)	Details of the Website (if any)
		지하네요. [44] 이 집 그 이 내 이렇게 하게 되었다면 하지? [42] [44] [44] [44] [44] [44]	

Signature of the Candidate

Note: Application for each question/answer shall be made on separate page in the given format, otherwise the first question entered in the format shall only be considered.

Booklet Serial No.

203381

Test Booklet Series

TEST BOOKLET FISHERIES DEVELOPMENT OFFICER



Written Test - 2024 (15)

Time Allowed: Three Hours

Maximum Marks: 120

INSTRUCTIONS

- 1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- 3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

 DO NOT write anything else** on the Test Booklet.
- 4. This Test booklet contains 120 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
- 5. You have to mark all your responses *ONLY* on the separate Answer /Response Sheet provided. *See directions in the Response Sheet*.
- 6. All items carry equal marks.
- 7. Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- 10. While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

 $\overline{(15)(A)/2024}$

P.T.O.



(15	(A)	(3)	[P.T.O.
	D)		
	D)	clostridium botulinum	
	B) C)	Lactobacillus	
	A)	Salmonella	
7.		Listeria monocytogenes	
_	٨	nicro aerophilic food borne Pathogen which leads to abortion in pro	egnant women is
	D)	White sardine	
	C)	White bait	
	B)	Rainbow sardine	
	A)	Indian oil sardine	
6.	Dus	ssumieria acuta is commonly called as	
	-,		
	D)	Sphyrnidae	
	C)	Carcharhinidae	
	B)	Physeteridae	
٥.	A)	Rhincodontidae	
5.	Wh	ale sharks belong to the family	
	D)	Sparus aurata	
	C)	Centropristis striata	
	B)	Dicentrarchus labrax	
	A)	Lates calcarifer	
4.		opean Seabass is	
	Г	and a Cashaga is	
	D)	Biosynthesis	
	C)	Bioremediation	
	B)	Bioencapsulation	
	A)	Biomagnification	
3.		phenomenon of building up of toxicants in the tissues of an animal	
	m'i		
	D)	Food Conversion Ratio	
	C)	Minimum Legal Size	
	B)	Morpho Edaphic Index	
	A)	Maximum Sustainable Yield	
2.	It wa	as Richard A.Ryder, who developed the concept of	
	D)	None of the above	
	D)	None of the above	
	D)	40000 ha	
	B)	4000 ha	
1.	A)	4000 ha	
1.	Pote	ntial water spread area in Jammu and Kashmir	

8.	Aetobatus narinari is	
	A) Long tailed butterfly ray	
	B) Spotted eagle ray	
	C) Bow mouthed guitar fish	
	D) Cow nosed ray	
9.	Major fishing season in Jammu and Kashmir is from	
	A) June - September	
	B) March - September	
	C) June - January	
	D) None of the above	
10.	Pick out the fully correct statement.	
	A) Ammonia toxicity would be more lethal in high pH	
	B) Ammonia toxicity would be less lethal in high pH.	
	C) Ammonia toxicity would be more lethal in low pH	
	D) Ammonia toxicity doesn't get influenced by pH.	
11.	For catching fast moving large predatory fishes, is the most commonly in	ısed
	gear	
	A) Purse seines	
	B) Trawling	
	C) Trolling	
	D) None of the above	
12.	What is the major external input for maintaining biofloc microbial communities?	
	A) Phosphorous	
	B) Nitrogen	
	C) Carbon	
	D) None of the above	
13.	Atlantic hag fish is scientifically known as	
	A) Myxine glutinosa	
	B) Petromyzon marinus	
	C) Hydrolagus colliei	
	D) Gymnothorax moringa	
14.	The Common carp (Cyprinus carpio L.) was introduced in India for acquaculture in	
	the year	
	A) 1949	
	B) 1950	
	C) 1959	
	D) 1961	

(4)

15.	Chei	mical formula of Dolomite used for adjusting the pH/alkalinity in aquaculture pond
	A)	CaCO ₃
	B)	MgCO ₃
	C)	
	D)	Na ₂ CO ₃
16.	The	re arenumber of nerves associated with most of the fin fish brain.
	A)	12
	B)	22
	C)	
	D)	100
17.	Con	nmonly seen septicemic bacterial disease in salmonids.
	A)	Furunculosis
	B)	Lymphocystis
	C)	Infectious dropsy
	D)	Infectious pancreatic necrosis
18.	Tox	ins responsible for Diarrhetic shellfish poisoning is
10.	A)	Okadaic acid
	B)	Dinophysis toxins
	C)	Both A and B
	D)	Neither A nor B
		1 N 1 11 manualta the lectors
19.	The fern	e antimicrobial compound, Nisin produced by prevents the lactose nenting organisms in foods containing lactose.
	A)	Streptococcus faecalis
	B)	Lactococcus lactis
	C)	Staphylococcus aureus
	D)	Lactococcus garvieae
20.	The	e trout species with the greatest significance in Indian aquaculture is
	A)	Oncorhynchus mykiss
	B)	Salvelinus fontinalis
	C)	Salvelinus trutta
	D)	Oncorhynchus kisutch
(15	5) (A)	(5) [P.T.O.

21.	The	re aremysis stages in Penaeus monodon
	A)	3
	B)	4
	C)	6
	D)	11
22.	The	phenomenon with High Nutrient and Low Chlorophyll (HNLC) is seen in
	A)	Arabian Ocean
	B)	Bay of Bengal
	C)	North Pacific Ocean
	D)	All of the above
23.	IPN	in fishes is caused by
	A)	Bacteria
	B)	Virus
	C)	Parasite
	D)	Fungus
24.	The	weakest linear relationship is indicated by a correlation coefficient of
	A)	
	B)	0.01
	C)	0.001
	D)	None of the above
25.	Horn	mone primarily responsible for ovulation in fish
	A)	GIH
	B)	LH
	C)	MSH
	D)	ACTH
(15)	(A)	(6)

26.	The	number of NADH molecules generated in citric acid cycle is
	A)	1
	B)	2
	C)	3
	D)	None of the above
27.	Amo	ong the following,is a stress hormone
	A)	Oxytocin
	B)	Thyroxine
	C)	Cortisol
	D)	None of the above
28.	Cott	on like tufts on skin and gills are clinical signs of
	A)	White spot
	B)	Saprolegniasis
	C)	Myxobolosis
	D)	Lordosis
29.	ELI	SA is categorised in
	A)	Immunoassay
	B)	Cell culture
	C)	Algal culture
	D)	None of the above
30.	Late	es calcarifer is commonly called as
	A)	Barramundi
	B)	Greasy grouper
	C)	Spotted sea bass
	D)	Atlantic sea bass
	\	

32.	2. 'Kakabans' are commonly used in the breeding of		
	A)	Shrimps	
	B)	Indian major carps	
	C)	Common carp	
	D)	Trout	
33.	"Du	bisch Method" is related with	
	A)	Fish processing	
	B)	Fish identification	
	C)	Fish breeding	
	D)	None of the above	
34.	"Ale	evin" is connected to	
	A)	Salmon	
	B)	Vannamei	
	C)	Shark	
	D)	Crab	
35.	Cho	ose the odd one out	
	A)	Mood's Median test	
	B)	One way ANOVA	
	C)	Kruskal-Wallis test	
	D)	T-test.	
36.	The	State fish of Jammu and Kashmir is	
	A)	Copper mahseer	
	B)	Golden mahseer	
	C)	Red mahseer	
	D)	Chocolate mahseer	
(15)	(A)	(8)	
(10)	(11)	(0)	

The first fish successfully fertilized with cryopreserved spermatozoa.

A)

B)

Milk fish

Rainbow trout

C) Peruvian anchovy

D) Atlantic herring

37.	Sele	ct the most appropriate choice from the following	
	i)	Chilika lake is the largest brackish water lake of the country	
	ii)	Chilika lake is located in Odisha.	
	iii)	Chilika lake is flowing into Bay of Bengal	
	iv)	Chilika lake is a fresh water lake	
	A)	i & ii	
	B)	i & iii	
	C)	i, ii & iii	
	D)	i, ii, iii & iv.	
38.	'Pole	e and line' fishing method is most commonly used in	
	A)	Kerala	
	B)	Lakshadweep.	
	C)	Tamil Nadu	
	D)	Gujarat	
39.	Mar	galef's index identifies	
	A)	Species conservation	
	B)	Species biomass	
	C)	Species richness	
	D)	Species dependence	
40.	The	largest reservoir in terms of volume in the world is	
	A)	Kariba	
	B)	Bratsk	
	C)	Boguchany	
	D)	None of the above	
41.	Lea	ther carp is scientifically known as	
•••	A)	Cyprinus carpio var.communis	
	B)	Cyprinus carpio var.nudus	
	C)	Cyprinus carpio var.specularis	
	D)	None of the above	
42.	Wh	ich country in Asia is accounted for the maximum number of end	lemic fresh water fin
		species population?	
	A)	Vietnam	
	B)	India	
	C)	Indonesia	
	D)	Malaysia.	
(15) (A)	(9)	[P.T.O.

43.		cellaneous assemblage of organisms growing upon free surface of objects, submerged vater is called as
	A)	Seston
	B)	Nekton
	C)	Neuston
	D)	Periphyton
44.		ange the following organizations in chronological order in terms of the year of blishment
	i)	CMFRI
	ii)	CIFE
	iii)	CIFNET
	iv)	CIBA
	A)	iv, ii, iii, i
	B)	ii, iii, iv, i
	C)	iii, ii, i, iv
	D)	None of the above
45.	NRI	EP stands for
	A)	National Rural Employment Programme
	B)	National Rural Extension Programme
	C)	National Rural Employees Programme
	D)	National Rural Educational Programme.
46.	Calc	culate the quantity of tea seed cake in tonnes required for prestocking application in
		nd with an area of 3 ha and an average depth of 15 cm.
	A)	0.09
	B)	0.90
	C)	9.00
	D)	90.0
47.	Mud	l skippers belong to
	A)	Oxudercinae
	B)	Channa
	C)	Anguilla
	D)	Ciprinidae
(15)	(A)	(10)

48.	The	fishes which have eyes on dorsal side
	A)	Flounder
	B)	Sole
	C)	Both A & B
	D)	None of the above
49.	Pear	l oysters belong to the family
	A)	Pteriidae
	B)	Mytilidae
	C)	Nephropidae
	D)	Rhynchocinetidae
50.	Larv	val stage of most groups of molluscs are called as
	A)	Nauplius
	B)	Trochophore
	C)	Megalopa
	D)	None of the above
51.	Kar	l Pearson's co-efficient of skewness value lies between
	A)	0 and +1
	B)	-3 and +3
	C)	Both A & B
	D)	None of the above
		the state of the s
52.		ich organization is responsible for regulating coastal shrimp farming in India
	A)	CMFRI
	B)	MPEDA
	C)	CIBA
	D)	CAA
53.	Lar	val stage of lobster
	A)	Mysis
	B)	Pluteus
	C)	Veliger
	D)	None of the above

54.	Spir	rulina sp. is a
	A)	Brown algae
	B)	Blue brown algae
	C)	Cyanobacteria
	D)	Bacteria
	T. J'	
55.		an Mackerel belongs to the family
	A)	Clupeidae
	B)	Scombridae
		Engraulidae
	D)	Cyprinidae
56.	Rec	ommended stocking density of Penaeus vannamei in India for commercial culture
	is	
	A)	$10/\mathrm{m}^2$
	B)	$20/\mathrm{m}^2$
	C)	$60/\mathrm{m}^2$
	D)	$100/\mathrm{m}^2$
57.	Otte	er boards are used in
	A)	Trawls
	B)	Gill nets
	C)	Seines
	D)	All of the above
58.	The	name Umbo is related to
	A)	Fish breeding
		Bivalve breeding
	C)	Shrimp breeding
	D)	Climate change
50	Cl	
59.		ose the odd one out
	A)	Dhiri
	B)	Kurjar
	C)	Garri
	D)	Amur
60.		common name of seagrass, Thalassia testudinum
	A)	Eel grass
	B)	Turtle grass
	C)	Tape grass
	D)	Manatee grass
(15)	(A)	(12)

63.	GIH	I hormone involves in	
	A)	Growth	
	B)	Maturation	
	C)	Immunity	
	D)	Digestion	
64.	Bile	e salt is produced in	
	A)	Liver	
	B)	Blood	
	C)	Bone marrow	
	D)	None of the above	
65.	Mri	gal is a	
	A)	Column feeder	
	B)	Surface feeder	
	C)	Bottom feeder	
	D)	Macro algal feeder.	
66.	W/h	ite spot syndrome virus belongs to the family	
00.			
	A)	Nimaviridae Birnaviridae	
	B) C)	Iridoviridae	
	D)	None of the above	
(15)	(A)	(13)	[P.T.O.
	` '		

61. Larval form of Ox eye Tarpon Ammocoete

Leptocephalus

Reproductive function in fishes is primarily controlled by

Bipinnaria

Pituitary

Thyroid

Adrenal gland

None of the above

Jhatka

A)

B) C)

D)

A)

B)

C) D)

62.

68.	Whi	ich among the following is a warm ocean current.
	A)	Kuroshio Current
	B)	Humboldt Current
	C)	Benguela Current
	D)	Canary Current
69.	Hor	seradish peroxidase is a/an
	A)	Cleaning agent
	B)	Enzyme
	C)	Antibacterial agent
	D)	Absorbent
70.	Whi	ich of the following is not an element of the marketing mix
	A)	
	B)	Product
	C)	Target market
	D)	Pricing
71.	Late	ent Heat of fusion of water
	A)	60 kJ/gm
	B)	100 kJ/gm
	C)	334 kJ/gm
	D)	456 kJ/gm
72.	Imp	ort of Tilapia to India was legally approved in the year of
	A)	2000
	B)	2001
	C)	2005
	D)	2006
73.	Strij	pping is commonly practiced for the fertilization of eggs in
	A)	Silver carp
	B)	Pearl spot
	C)	Tilapia
	D)	Angel fish
(15)	(A)	(14)

67. Causative agent of Larval Mycosis is Dermocystidium spp

Fusarium spp. C) Lagenidium spp. D) None of the above

B)

74.	Expa	and the GIFT
	A)	Genetically Improved Farmed Tilapia
	B)	Genetically Induced Farmed Tilapia
	C)	Genetically Improved Female Tilapia
	D)	None of the above
	т.	
75.		cal Agar-Agar is
	A)	70% agarose and 30% agaropectin
	B)	30% agaropectin and 70% agarose
	C)	70% agarose and 30% water
	D)	70% agarose and 30% starch
76.	In ge	eneral, the particle-size (Microns) in commercial bio floc tanks falls in the range of
	A)	10-20
	B)	30-60
	C)	50-200
	D)	300-800
77.	Con	vention on International Trade in Endangered Species of Wild Fauna and Flora came
′′•		force in
	A)	1970
	B)	1975
	C)	1980
	D)	1992
	2)	
78.	Alie	en mussel species reported from Indian waters
	A)	Mytella strigata
	B)	Perna viridis
	C)	Perna canaliculus
	D)	Lamellidens marginalis
79.	The	approx hatching time of common carp at 28°C is estimated as
	A)	6-12 hrs
	B)	12-24 hrs
	C)	28-34 hrs
	D)	48-72 hrs
80.	In th	ne presence of Vitamin C, which mineral is absorbed better in fish
	A)	Copper
	B)	Iron
	C)	Zinc
	D)	Phosphorus
		TD TT C
(15	(A)	(15) [P.T.O.

81.	The instrument used for the measurement of the texture of fish
	A) Torry meter

- B) Intelectin Tester
- C) XT plus Texture analyser
- D) Universal Testing Machine

82. DCFR is situated in

- A) Himachal Pradesh
- B) Uttar Pradesh
- C) Uttarakhand
- D) Maharashtra

83. Common name of Channa striatus is

- A) Striped snakehead
- B) Walking catfish
- C) Giant snakehead
- D) None of the above

84. Olive barb is

- A) Puntius filamentosus
- B) Horabagrus brachysoa
- C) Systomus sarana
- D) Barbodes carnaticus

85. Expand EDTA.

- A) Ethylene diamine tetra acetic acid
- B) Ethylene diamine tetra amino acid
- C) Ethane diamine tetra acetic acid
- D) None of the above.

86.	Size	grading is to be invariably done during the nursery rearing of
	A)	Lates calcarifer
	B)	Chanoschanos
	C)	Penaeus monodon
	D)	Catlacatla
87.	Amy	vloodinium ocellatum is a
	A)	Dinoflagellate
	B)	Ciliate
	C)	Virus
	D)	Bacteria
88.	Cra	y fish plague is caused by
	A)	Water mold
	B)	Cyanobacteria
	C)	Virus
	D)	Nematode
89.	The	nutrient, essential for the development of external shell of diatoms
	A)	Chloride
	B)	Silicates
	C)	Nitrates
	D)	Fluorides
90.	<u> </u>	is considered as the father of Limnology
	A)	J.R. Lorenz
	B)	V.Hensen
	C)	F.Simony
	D)	F.A.Forel

(17)

(15) (A)

[P.T.O.

91.	. Which monogenean parasite causes gill disease in carps?		
	A)	Dactylogyrus	
	B)	Capsalidae	
	C)	Ancyrocephalidae	
	D)	None of the above	
92.		Code of Conduct for Responsible Fisheries (CCRF) was adopted unanimously by FAO Conference in the year.	
	A)	1980	
	B)	1986	
	C)	1994	
	D)	1995	
93.	ISO	standards which specify the need for food safety management system.	
	A)	ISO9000 Series	
	B)	ISO11000 Series	
	C)	ISO14000 Series	
	D)	ISO22000 Series	
94.	The	reconveing with the gize of more than 5000 be one classified as	
77.	A)	reservoirs with the size of more than 5000 ha are classified asin India Micro	
	B)	Small	
	C)	Medium	
		None of the above	
	2)		
95.	Acc	epted level of TVBN in fresh fish muscle is	
	A)	10-15 mg N/100 gm	
	B)	20-25 mg N/100 gm	
	C)	35-40 mg N/100 gm	
	D)	50-90 mg N/100 gm	
96.		compound which is responsible for fishy odour of fish	
	A)	TMA	
	B)	TMAO	
	C)	Hypoxanthine	
	D)	IMP	
(15)	(A)	(18)	

97.	The D value of an organism iswhen the temperature is high	
	A)	Lower
	B)	Fluctuated
	C)	Higher
	D)	Not affected
98.		ong the so far published data which fish has the largest genome
	A)	
		Coelacanth
		Lung Fish
	D)	Japanese eel
99.	The	concept of State fish has been implemented as part of
	A)	National integration
	B)	Fish conservation
	C)	Regional symbols
	D)	None of the above
100.		mature ova of silver carp isin colour
		White
		Golden Yellow
		Pale blue
	D)	None of the above
101	. In w	which year, the first trout hatchery in India was established
	A)	
	B)	
		1905-1906
	D)	1909-1910
102	. The	e number of barbels in <i>Tachysuridae</i>
	A)	1 pair
	B)	2 pairs
	C)	3 pairs
	D)	4 pairs
103	.Tapt	i estuary is present in
	A)	Kerala
	B)	Maharashtra
	C)	
	D)	
(15)	(A)	(19)

[P.T.O.

104.	. The	"trawl ban" was commenced in Kerala in the year
	A)	1972
	B)	1978
	C)	1988
	D)	1994
105.	. Whi	ich of the following is true
	A)	Haemocyanin is a copper containing pigment which is colourless in oxygenated condition.
	B)	Haemocyanin is a copper containing pigment which is bluish red in deoxygenated condition.
	C)	Haemocyanin is a copper containing pigment which is blue in deoxygenated condition.
	D)	Haemocyanin is a copper containing pigment which is blue in oxygenated conditon.
106.		h quality fish meal available in Indian market contains approximately% rotein
	A)	20-30
	B)	40-50
	C)	60-70
	D)	None of the above
107.	. Whi	ch enzyme is responsible for catalysing the process of transcription
	A)	DNA polymerase
	B)	RNA polymerase
	C)	Helicase
	D)	Ligase
108.	The	signalling protein produced by cellsonviral infection
	A)	Cytokines
	B)	Interferons
	C)	Chemokines
	D)	Interleukins
109.	Opti	mum temperature for the growth of Psychrophilesis°C
	A)	15
	B)	20
	C)	25
	D)	30
(15)		(20)

	B)	Coagulation		
	C)	Agglutination		
	D)	Adsorption		
111.	t toxin is of concern with HABs?			
	A)	Microcystin		
	B)	Mycotoxin		
	C)	Aflatoxin		
	D)	Citrinin		
112.	The	most effective gear for harvesting ribbon fishes in India is		
	A)	Purse seines		
	B)	Gill nets		
	C)	Trawl nets		
	D)	Hook and lines		
113.	13. Tilapia Lake Virus belongs to the family			
	A)	Orthomyxoviridae		
	B)	Paramyxoviridae		
	C)	Amnoonviridae		
	D)	None of the above		
114.	Whi	ch sub targets of SDG 14 (life below water) is related to sustainable fishing?		
	A)	SDG 14.1		
	B)	SDG 14.2		
	C)	SDG 14.3		
	D)	SDG 14.4		
115.	A ta	exon of fish is considered as Critically Endangered (CR) when its population is matted to less thanmature individuals		
	A)	50		
	B)	150		
	C)	250		
	D)	550		
(15)	(A)	(21) [P.T.O.		

110. In moist heat sterilization, microorganisms are killed by_

A)

Oxidation

	D)	All of the above		
117. Name the brown algae which has been recently emerged as an ecological threa Caribbean Islands				
	A)	Kelp		
	B)	Sargassum		
	C)	Rock weeds		
	D)	Sea grass		
118	18. The family to which the sardines and its relatives are recently shifted to			
	A)	Denticipitidae		
	B)	Pristigasteridae		
	C)	Dorosomatidae		
	D)	Sardinellidae		
119. Where was the first trout hatchery established in India?				
	A)	Harwan		
	B)	Nainital		
	C)	Chamba		
	D)	Kulu		
120. Total financial out lay of PMMSY Project in India is				
	A)	Rs.1000 crores		
	B)	Rs.2500 crores		
	C)	Rs.10050 crores		
	D)	Rs.20050 crores.		

(22)

116. Which among the following is the mode of action of probiotics in fish

Competitive exclusion

Competition for nutrients

Production of inhibitory substances.

A)

B)

C)

ROUGH WORK

(15) (A) [P.T.O.

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