ICAR AIEEA PG

QUESTION PAPER



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PREVIEW QUESTION BANK

Module Name : FISHERIES SCIENCES-ENG
Exam Date : 29-Jun-2024 Batch : 10:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	150001	How does climate variability influence biological productivity and fisheries sustainability? 1. Environmental changes have no impact on fisheries 2. Climate variability promotes fish growth 3. Changing environmental conditions affect fish habitat and food availability 4. Fisheries are immune to environmental fluctuations A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	150002	The density of seawater at 4^0 C is 1. 1.008 g/cm^3 2. 1.0278 g/cm^3 3. 1.5000 g/cm^3 4. 2.0252 g/cm^3 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	150003	How does phytoplankton biomass impact fisheries productivity? 1. Higher phytoplankton biomass leads to decreased fish populations 2. Phytoplankton biomass has no direct impact on fisheries 3. Optimal phytoplankton levels enhance fish growth and abundance 4. Phytoplankton compete with fish for food resources A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
4	150004	What role do bio-indicators play in assessing aquatic pollution levels? 1. They are used for chemical analysis of water samples 2. They indicate the presence of specific pollutants based on their health status 3. They control nutrient inputs in aquatic ecosystems 4. They are not related to aquatic pollution assessment A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	150005	How does water pH influence fish physiology and ecology? 1. High pH levels enhance fish growth rates 2. Low pH levels increase fish reproductive success 3. pH affects fish gill function and nutrient uptake 4. pH has no significant impact on fish health A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	150006	Which oceanographical parameter is critical for understanding ocean productivity and its impact on fisheries? 1. Sea surface temperature 2. Chlorophyll concentration 3. Salinity gradient 4. Ocean current speed A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
7	150007	What does the term "BOD" (Biochemical Oxygen Demand) refer to in sewage analysis? 1. The amount of oxygen needed by aquatic organisms 2. The rate of bacterial growth in sewage 3. The oxygen content in fresh water bodies 4. The amount of oxygen required by bacteria to decompose organic matter in sewage A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	150008	Which Limnological parameter indicates the level of acidity or alkalinity of water? 1. Turbidity 2. Total dissolved solids 3. pH 4. Biochemical oxygen demand (BOD) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
9	150009	How does water temperature impact fisheries? 1. Higher temperatures reduce fish metabolism 2. Lower temperatures decrease dissolved oxygen levels 3. Warmer water enhances fish growth and reproduction 4. Temperature has no effect on fish behaviour A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
10	150010	What is an example of a symbiotic association in aquatic ecosystems? 1. Competition between two fish species for food 2. Predation of plankton by a larger fish species 3. Mutualistic relationship between corals and zooxanthellae 4. Decomposition of organic matter by bacteria A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
11	150011	Which one among the following is not true in relation to Von Bertalanffy plot 1. Estimates growth parameters are K and t_0 2. The plot is parabolic 3. The time interval is need not to be constant 4. Provides reasonable estimate of K if L_∞ input is reasonable A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
12	150012	Nauxim bay is famous for the fishery of 1. Window pane oyster 2. Black clam 3. Short neck clam 4. Green mussel A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
13	150013	Type of caudal fin present in classes Dipnoi and Holocephali is 1. Protocercal 2. Homocercal 3. Diphycercal 4. Isocercal A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
14	150014	Given below are two statements: Statement (I): Rhodeus deposits eggs on the mantle cavity of freshwater mussel Statement (II): Caraproctus deposits eggs beneath the carapace of crabs In light of the above statements, choose the *most appropriate* answer from the options given below: 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
15	150015	Given below are two statements: Statement (I): In fish, prolactin increases glomerular filtration rate in the kidney. Statement (II): In fish, prolactin functions predominately in freshwater osmoregulation. In light of the above statements,choose the *most appropriate* answer from the options given below: 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true.	4.0	1.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
16	150016	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The rohu hatchlings gulp the food item after couple of days Reason (R) : Mouth in the hatchlings of rohu is developed after one day of hatching In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	150017	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Freshwater fishes produce a large amount of diluted urine. Reason (R) : Skin has low permeability to the water and salt ions. In light of the above statements, choose the correct answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

18 | 150018 | 4.0 | 1.00

Match **List-I** with **List-II**

List-I	List-II
(A). Cranial Nerve V	(I). Facial nerve
(B). Cranial Nerve VII	(II). Vagus nerve
(C). Cranial Nerve IX	(III). Trigeminal nerve
(D). Cranial Nerve X	(IV). Glossopharyngeal nerve

Choose the **correct** answer from the options given below:

1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
2. (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (II), (D) - (I)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

19 | 150019 | 4.0 | 1.00

Match **List-I** with **List-II**

List-I	List-II
(A). Brahmaputra	(I). Ghaghara
(B). Krishna	(II). Wain-ganga
(C). Ganga	(III). Bhima
(D). Godavari	(IV) Subarnasiri

Choose the **correct** answer from the options given below:

1. (A) - (III), (B) - (IV), (C) - (II), (D) - (I)
2. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III)
4. (A) - (IV), (B) - (III), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

20 | 150020 | 4.0 | 1.00

Arrange the larval developmental stages of pearl oyster in sequence

(A). Eyespot

(B). Veliger

(C). Pediveliger

(D). Trochophore larva

Choose the **correct** answer from the options given below

1. (D), (A), (B), (C)
2. (B), (C), (D), (A)
3. (D), (B), (A), (C)
4. (B), (C), (A), (D)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

21 | 150021 | 4.0 | 1.00

Which one is not an Indian Major Carp

1. *Catla catla*
2. *Labeo rohita*
3. *Labeo gonius*
4. *Cirrhinus mrigala*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

22 | 150022 | 4.0 | 1.00

		The soil pH considered to be productive for fish pond is 1. 6.5-7.0 2. 5.5-6.0 3. 6.0-6.4 4. 7.5-8.0 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
23	150023	Which one is not a floating aquatic weed 1. Sagitaria 2. Pistia 3. Azolla 4. Ipomoea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
24	150024	Which medium carp is used as Column feeder 1. *Labeo calbasu* 2. *Labeo gonius* 3. *Puntius sarana* 4. *Labeo fimbriatus* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
25	150025		4.0	1.00

		Glyphosate is a 1. Weedicide 2. Piscicide 3. Insecticide 4. Nematicide A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
26	150026	The Nitogenous fertilizer suitable for application to slightly acidic soil 1. Urea 2. Calcium ammonium nitrate 3. Ammonium sulphate 4. Potassium nitrate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
27	150027	Sewage fed aquaculture is more common in the state 1. Odisha 2. West Bengal 3. Tamil Nadu 4. Gujrat A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
28	150028		4.0	1.00

		Which one of the following is a Cladoceran zooplankton 1. Bachionus 2. Keratella 3. Daphnia 4. Fillinia A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
29	150029	Hampshire is the breed of 1. Goat 2. Sheep 3. Buffalo 4. Swine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
30	150030	The suitable type of hatchery for the Golden mahseer 1. Circular hatchery 2. Flow through hatchery 3. Glass jar hatchery 4. None A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
31	150031		4.0	1.00

		The approximate weight of 1 million carps spawn is 1. 0.015 Kg 2. 0.15 Kg 3. 15 Kg 4. 1.5 Kg A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
32	150032	Brine shrimp is known as 1. *Penaeus indicus* 2. *Artemia salina* 3. *Acetes indicus* 4. *Metapenaeus dobsoni* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
33	150033	Mahua oil cake contain 1. 4-6% Saponin 2. 5-6% Mowrin 3. 10-15% Saponin 4. 5% Rotenone A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
34	150034		4.0	1.00

		Fishes which deposit their egg on sand is called 1. Lithophils 2. Psammophils 3. Phylophils 4. None A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
35	150035	The larvae of fresh water mussel is called 1. Nauplius 2. Glochidium 3. Megalopa 4. Zoea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
36	150036	Cage culture was initiated in 1. Philippines 2. China 3. Cambodia 4. India A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
37	150037		4.0	1.00

		In case of excessive phytoplankton which species is preferred to stock 1. Silver carp 2. Grass carp 3. Common carp 4. None A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
38	150038	Gracilaria is a 1. Brown algae 2. Green algae 3. Red algae 4. None A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
39	150039	The duck starts laying eggs after the age of 1. 6 months 2. 8 months 3. 4 months 4. 10 months A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
40	150040		4.0	1.00

		Stocking density of carps depends on 1. Targeted production 2. Pond carrying capacity 3. Species to be cultured 4. Option 1,2, & 3 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
41	150041	Which among the following is the major cause for belly bursting of fish 1. Less feeding 2. Moderate feeding 3. Intense feeding 4. Empty stomach A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
42	150042	The lysosomal protease in muscle belonging to family of Aspartic proteases 1. Cathepsin D 2. Cathepsin A 3. Cathepsin B 4. Trypsin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
43	150043		4.0	1.00

		When pre-rigor fish are frozen, the following ions are released into sarcoplasmic reticulum at high concentration causing thaw rigor 1. Mg^{2+} 2. Ca^{2+} 3. Na^{+} 4. Cl^{-} A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
44	150044	The Nutrients that are least affected during irradiation of fishery products is/are 1. Vitamin A 2. Minerals 3. Thiamine 4. PUFA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
45	150045	Formation of aflatoxins in smoked fish is due to the action of_____ 1. Pseudomonas 2. Clostridium 3. Aspergillus 4. Acetobacter A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

46	150046	Application of layer of ice to the frozen fish as surface coat to prevent freeze dehydration is called 1. Blanching 2. Thawing 3. Defrosting 4. Glazing A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
47	150047	The oleoresinous lacquer added with zinc oxide in can making is called 1. R- enamel 2. F- enamel 3. C- enamel 4. Phenolic enamel A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
48	150048	Recommended gas mixture for retail packing of fatty and smoked fish 1. 40:30:30 CO_2:N_2:O_2 2. 30:30:40 CO_2:N_2:O_2 3. 60:40 CO_2:N_2 4. 40:60 CO_2:N_2 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
49	150049		4.0	1.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) :Transition metals are key components of many enzymatic and non-enzymatic catalysts. Reason (R) : Iron is the only transition metal in seafood. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
50	150050	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) :Mucus of postmortem fish contains albumins, lipoids and phosphatides. Reason (R) : Mucus of postmortem fish is not suitable for growth of microorganisms. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
51	150051		4.0	1.00

		Given below are two statements: Statement (I): Reduction of pH during spoilage reduces water holding capacity of proteins Statement (II): pH does not have any role in changes occurring in properties of proteins and enzymes In light of the above statements, choose the *most appropriate* answer from the options given below 1. Both Statement (I) and Statement (II) are correct 2. Both Statement (I) and Statement (II) are incorrect 3. Statement (I) is correct but Statement (II) is incorrect 4. Statement (I) is incorrect but Statement (II) is correct A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
52	150052	Given below are two statements: Statement (I): Fermentation of fish protein by lactic acid bacteria makes it more digestible in the product Statement (II): Fermentation produces a beneficial antibacterial effect, reduce lipid oxidation, and enhances flavour and taste In light of the above statements, choose the *most appropriate* answer from the options given below 1. Both Statement (I) and Statement (II) are correct 2. Both Statement (I) and Statement (II) are incorrect 3. Statement (I) is correct but Statement (II) is incorrect 4. Statement (I) is incorrect but Statement (II) is correct A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
53	150053		4.0	1.00

Consumption of ω-3 fatty acids can prevent

(A). Ulcers

(B). Caronary Heart Disease

(C). Diabetes

(D) Hypertension

Choose the ***correct*** answer from the options given below:

1. (A), (B) and (D) only
2. (A), (B) and (C) only
3. (A), (B), (C) and (D)
4. (B), (C) and (D) only

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

54 150054 4.0 1.00

Match **List-I** with **List-II**

List-I	**List-II**
(A). Ceruloplasmin	(I). Antioxidant
(B) Carnosine	(II) Enzyme
(C). Sodium Benzoate	(III). Ferroxidase
(D). Phospholipases	(IV). Antifungal agent

Choose the **correct** answer from the options given below:

1. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
2. (A) - (IV), (B) - (II), (C) - (III), (D) - (I)
3. (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
4. (A) - (IV), (B) - (III), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

55 150055 4.0 1.00

Match **List-I** with **List-II**

List-I	List-II
(A). *Pla-ra*	(I). Fish sauce
(B). *ngapi*	(II). Cooked Marinate
(C). *Paksiw*	(III). Lactic acid fermented product
(D). Nuoc-mam	(IV). Paste fishery product

Choose the **correct** answer from the options given below:

1. (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
2. (A) - (III), (B) - (IV), (C) - (II), (D) - (I)
3. (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56 150056 4.0 1.00

17α,20β-dihydroxy-4-pregnen-3-one is also known as?

1. Maturation-inducing hormone
2. Maturation inhibitory hormone
3. Osmoregulatory hormone
4. Courtship hormone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

57 150057 4.0 1.00

		In which reproductive strategy do fishes lay eggs that hatch outside the mother's body? 1. Viviparity 2. Oviparity 3. Ovoviviparity 4. Hermaphroditism A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
58	150058	What is the relationship of rearing temperature and duration of yolk-sac absorption in fish larvae? 1. Inverse 2. Direct or proportional 3. Independent 4. None A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
59	150059	In oviparous fishes, the precursors of yolk proteins (vitellogenins) are synthesized in which organ? 1. Ovary 2. Intestine 3. Liver 4. Gallbladder A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	150060		4.0	1.00

		Gelatin lacks which of the following essential amino acid? 1. Arginine 2. Tryptophan 3. Glycine 4. Proline A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
61	150061	Which enzyme is primarily responsible for the breakdown of proteins in the intestine of fishes? 1. Amylase 2. Lipase 3. Pepsin 4. Trypsin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
62	150062	Excretory material of bony fishes is? 1. Urea 2. Uric acid 3. Ammonia 4. Ammonium chloride A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
63	150063		4.0	1.00

		Specific dynamic action is related to? 1. Osmoregulation 2. Excretion 3. Feeding metabolism 4. Reproduction A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
64	150064	Which carbon moiety is released in each beta-oxidation cycle of even-numbered fatty acids? 1. Five-carbon moiety 2. Four-carbon moiety 3. Three-carbon moiety 4. Two-carbon moiety A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	150065	Which of the following statements is correct for a feed ingredient? 1. Gross energy < Metabolizable energy 2. Gross energy < Digestible energy 3. Digestible energy > Metabolizable energy 4. Digestible energy = Metabolizable energy A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
66	150066		4.0	1.00

		What does letter P in PCR stand for: 1. Polymer 2. Polymerase 3. Precision 4. Parallel A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
67	150067	Name the main cells which are resposible for cell mediated immune response in fish. 1. T-lymphocytes 2. B-lymphocytes 3. Macrophages 4. Red blood cells A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
68	150068	Which is the first cell to reach site of infection 1. Neutrophils 2. Eosinophils 3. Basophils 4. Macrophages A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
69	150069		4.0	1.00

		Furunculosis in fish is caused by 1. *Aeromonas salmonicida* 2. *Aeromonas hydrophila* 3. *Yesinia ruckeri* 4. *Renibacterium salmoninarum* A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
70	150070	Saddle back like lessions are seen in which infection? 1. Furunculosis 2. *Aeromonas hydrophila* 3. *Flavobacterium columnare* 4. Vibriosis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
71	150071	Most common fixative used in histology 1. Distilled water 2. Phosphate buffer 3. Acetic acid 4. Formalin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
72	150072		4.0	1.00

		Name the method used for staining of a bacteria culture. 1. PAS staining 2. Fuelgen staining 3. Gram's staining 4. Cotton blue staining A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
73	150073	What is the first step in a PCR reaction? 1. Annealing 2. Denaturation 3. Extension 4. Polymerization A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
74	150074	Decrease in size of an organ is called as 1. Hypertrophy 2. Atrophy 3. Aplasia 4. Anemia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
75	150075		4.0	1.00

		In hybridoma technology, which cells are fused with myeloma cells 1. Kidney cells 2. Liver cells 3. Intestinal cells 4. Spleen cells A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
76	150076	In the WTO negotiation session on Fisheries Subsidies, India stressed that any comprehensive agreement on fisheries subsidies should be built on the principles of CBDR-RC. What is CBDR-RC ? 1. Common But Differentiated Rules and Ruling Capabilities 2. Common But Differentiated Responsibilities and Ruling Capabilities 3. Common But Discriminating Responsibilities and Respective Capabilities 4. Common But Differentiated Responsibilities and Respective Capabilities A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
77	150077	Co-management of natural fisheries resources involves 1. Strict regulations for resource users/community groups made by the government authorities 2. Making responsibilities to be followed by the resource users/community groups and penalising if not followed 3. Shared management authority and responsibility between resource users/community groups at local levels and central government authorities 4. Shared authority and responsibility between state and central government authorities A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

78	150078	GDI measures gender inequalities in achievement in basic dimensions of human development which are (A). Health (B.) Education (C.) Gender (D.) Economic Status 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
79	150079	Borich Training Need Assessment Model discusses (A). Perceived level of extension (B). Perceived level of competence (C). Mean Weighted Discrepancy Scores (D). Perceived level of importance Choose the ***correct*** answer from the options given below: 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
80	150080		4.0	1.00

		Given below are two statements: Statement (I): In Kirkpatric model of training effectiveness the 4 levels *of criteria are Reaction, Learning, Behaviour and Results* Statement (II): In Kirkpatric model of training effectiveness the 4 levels *of criteria are Reasoning, Extension, Investigation and Research* In light of the above statements, choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
81	150081	A group of several species living together with mutual tolerance in a natural area is called as- 1. Fraternity 2. Community 3. Sodality 4. Parity A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
82	150082	Tertiary treatment of sewage aims at removal of- 1. Coarse materials 2. Nitrogen and phosphorus 3. Pathogens 4. Heavy metals A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
83	150083	Among the followings, which one is not a biotic factor?- 1. Neuston 2. Nekton 3. Tripton 4. Pleuston A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
84	150084	The range of potential scores of Index of Biotic Integrity is- 1. 10- 20 2. 12- 60 3. 10- 40 4. 10- 30 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
85	150085	International Wetland day is celebrated on- 1. 22 March 2. 02 March 3. 02 February 4. 02 January A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
86	150086	Which among the following is the major influencer for the production of all types of sex steroids during maturation in fish? 1. GnRH 2. ACTH 3. STH 4. LH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
87	150087	The characters of jellyfish include (A) Typically have a radial symmetry (B). Have head and mouth (C) Triploblastic tissue organization (D) Have specialized cells called nematocysts 1. (A), (C) and (D) only 2. (A), (B) and (D) only 3. (A), (B), (C) and (D) 4. (A) and (D) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
88	150088	The Convention on the Conservation of Migratory Species (CMS) Conference of Parties-13 (COP 13) in 2020 was held in which country? 1. Australia 2. India 3. China 4. Iran	4.0	1.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

89 150089 4.0 1.00

Identify the exotic fishes to India

A) *Ctenopharyngodon idella* and *Oncorhynchus mykiss*

B) *Esomus danricus* and *Cirrhinus cirrhosus*

C) *Poecilia reticulata* and *Cyprinus carpio*

D) *Lates niloticus* and *Betta splendens*

1. (A), (B) and (D) only.
2. (A), (C) and (D) only.
3. (A), (B), (C) and (D).
4. (B), (C) and (D) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

90 150090 4.0 1.00

Match **List-I** with **List-II**

List-I	List-II
(A). World Ocean Day	(I). March 22
(B). World Environment Day	(II). June 8
(C). World Wetland Day	(III). June 5
(D). World Water Day	(IV). February 2

1. (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
2. (A) - (III), (B) - (I), (C) - (IV), (D) - (II)
3. (A) - (II), (B) - (I), (C) - (IV), (D) - (III)
4. (A) - (III), (B) - (IV), (C) - (I), (D) - (II)

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
91	150091	The process of orderly removal of moisture from the timber before wooden boat preparation is called as? 1. Marinating 2. Dockying 3. Seasoning 4. Stranding A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
92	150092	What does the abbreviation "IUCN" stand for? 1. International United Conservation Network 2. International Union for Conservation of Nature 3. International Union for Climate Negotiations 4. International Union of Conservationist Nations A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
93	150093	Stocks of fish that migrate between, or occur in both, the Exclusive Economic Zone (EEZ) of one or more states and the high seas are commonly referred to as _____? 1. Straddling Fish Stocks 2. Shared Fish Stocks 3. Unit Fish Stocks 4. International Fish Stocks A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
94	150094	Which of the following statements best describes the impact of climate change on fisheries? 1. Climate change primarily affects fish populations in polar regions due to melting ice caps. 2. Climate change has minimal impact on fisheries as fish populations can adapt rapidly to changing environmental conditions 3. Climate change can disrupt marine ecosystems, affecting fish migration patterns, reproduction rates, and habitat suitability 4. Climate change leads to an increase in fish populations worldwide, resulting in higher yields for fisheries. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
95	150095	Which of the following Fisheries and Aquaculture Organization (FAO) areas encompasses the waters surrounding Antarctica? 1. FAO Area 27 2. FAO Area 21 3. FAO Area 51 4. FAO Area 88 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
96	150096	Proteins requirements are generally lower for ..... 1. Herbivorous fish 2. Predatory fish 3. Carnivorous fish 4. None of the above statement is true A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
97	150097	Proteins requirement of shrimps is.....percent. 1. 30-40 2. 5-10 3. 10-15 4. 15-20 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
98	150098	One calorie is equivalent to..... 1. 4184 Joules 2. 418.4 Joules 3. 41.84 Joules 4. 4.184 Joules A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
99	150099	Wet feed contain moisture level in the range..... 1. 7- 13% 2. 45-70% 3. 10-13% 4. 15-25% A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
100	150100	Floating feeds are preferred by ..... 1. Silver carp & Catla 2. Mrigal & Common carp 3. Crabs & Shrimps 4. None of the above A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
101	150101	..... is good example of Binders 1. Probiotics 2. Ergocalciferal and Retinole 3. Alginates and Tapoica 4. Ethoxiquin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
102	150102	..... is a Feeding Stimulent - Chemo attractant 1. L-Amino acid 2. Ergocalciferal 3. Ethoxyquin 4. Probiotics A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
103	150103	..... are antioxidants which can be added in feed of a cultivable fish 1. Alginates and Tapoica 2. Ethoxyquin and BHT 3. Carrageenan and Gelatin 4. Ergocalciferal and Vitamin K_1 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
104	150104	Gossypol is an antinutritional factor which can be in ..... 1. Beet and Spinach 2. Cotton plant and Malvacea 3. Mustarad and rape seed 4. Soybean and Mung beans A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
105	150105	..... is a feeding device 1. Vertical mixer 2. Rotary feeder 3. Demand feeder 4. Fish feed extruder A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
106	150106	Profit maximization of a firm is achieved when: 1. Total Revenue exceeds Total Costs 2. Marginal Revenue equals Marginal Costs 3. Average Revenue is Maximum 4. Fixed Cost is Minimum A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
107	150107	The Law of Supply states that, other things remaining constant: 1. The lower the price, the larger the quantity supplied 2. The higher the price, the larger the quantity supplied 3. The higher the price, the smaller the quantity supplied 4. There is no change in supply with change in price A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
108	150108	Total Cost (TC) equals: 1. Total Fixed Cost (TFC) + Total Variable Cost (TVC) 2. Average Fixed Cost (AFC) + Average Variable Cost (AVC) 3. Total Fixed Cost (TFC) 4. Total Varaiable Cost A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
109	150109	Following the Uruguay Round Agreement, the WTO came into effect from: 1. January 1, 1990 2. January 1, 1995 3. January 1, 2000 4. January 1, 2010 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
110	150110	What best describes the 'tragedy of the commons' in relation to fisheries? 1. Cooperative management practices among fishers 2. Overexploitation of shared fishery resources 3. Government subsidies promoting sustainable fishing 4. Limited access to fishing grounds for small-scale fishers A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
111	150111	_____ is an example of marine wood borer. 1. Pseudomonas 2. Vibrio 3. Bacillus 4. Limnoria A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
112	150112	In commercial tuna pole and line operation, following type of hooks are used: 1. Barbed 2. Barbless 3. Double hooks 4. Jigs A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
113	150113	Beche-de-mer is byproducts prepared from: 1. Sea cucumber 2. Sea urchin 3. Body oil 4. Cat fish oil A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
114	150114	The simplified International Standared Statistical Classification of Fishing Vessels by Vessel Types (ISSCFV) of FAO is based on 1. Type of fishing vessel 2. Type of propulsion 3. Type of gear used 4. Type of function A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

115	150115	Seasoning of the wood for boat building should bring the moisture content in the range of 1. 10-18% 2. Below 10% 3. Above 18% 4. 20-25% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

116	150116	Fish suction pumps are used in 1. Trawlers 2. Purse seiners 3. Ring seiners 4. Lampara net boats A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

117	150117	One nautical mile is equivalent to 1. 1.852 km 2. 1.652 km 3. 1.852 m 4. 1.652 m A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

118	150118	The gear most commonly used both in marine and inland waters throughout the world is 1. Trammel net 2. Gill net 3. Trawl net 4. Purse seine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
119	150119	Which of the following is marine borer? 1. Bacteria 2. Barnacles 3. Tube worm 4. Teredo A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	150120	Ratio between length of head rope and length of webbing 1. Length overall 2. Tailoring rate 3. Hanging coefficient 4. None A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

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