ICAR AIEEA PG

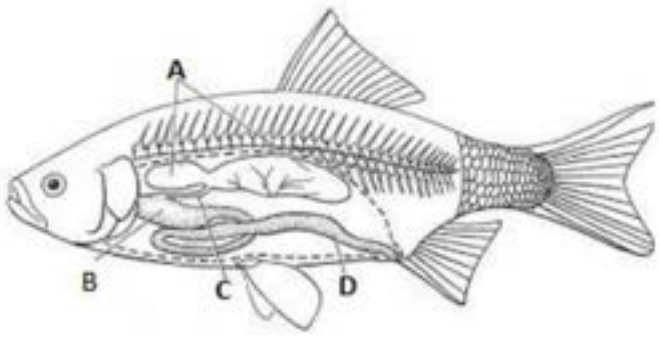
QUESTION PAPER



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PREVIEW QUESTION BANK

Module Name : FISHERIES SCIENCES-ENG
Exam Date : 09-Jul-2023 Batch : 10:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	3101	Study the parts (A, B, C and D) labeled in the given picture and identify the category of fish from the options given below :  1. Monorhinous fish 2. Physostomous fish 3. Physoclistous fish 4. Cartilagenous fish A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	3102	Meckel's cartilage supports which of the following in early development of shark ? 1. Inner ear 2. Upper jaw 3. Lower jaw 4. Gill cover A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
3	3103	Identify the correct sequence of blood flow in a typical teleost : 1. Conus arteriosus → Atrium → Ventricle → Sinus venosus 2. Sinus venosus → Atrium → Ventricle → Bulbus arteriosus 3. Conus arteriosus → Ventricle → Atrium → Sinus venosus 4. Sinus venosus → Ventricle → Atrium → Bulbus arteriosus A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
4	3104	Arrange the following fishes starting the early maturity to late maturity period under ideal conditions. (A) Whale shark (B) Rohu (C) Indian mackerel (D) Sturgeon (E) Tilapia Choose the ***correct*** answer from the options given below : 1. (E), (B), (A), (D), (C). 2. (B), (C), (A), (D), (E). 3. (B), (A), (D), (C), (E). 4. (E), (C), (B), (D), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

5	3105	Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**. **Assertion (A) :** Rectal gland, a specialised anatomical structure, is present in marine elasmobranchs. **Reason (R) :** Rectal gland secretes vasopressin which helps in osmoregulation. 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

6	3106	Identify the larva given in the picture :  1. Phyllosoma 2. Nauplius 3. Veliger 4. Megalopa A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
7	3107	The depressed central area on the planispiral coiled shell of *Nautilus* is called : 1. Whorl 2. Columella 3. Varix 4. Umbilicus A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	3108	Haemoglobin in teleosts is : 1. Monomeric 2. Dimeric 3. Trimeric 4. Tetrameric A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
9	3109		4.0	1.00

Given below are two statements :

Statement (I) : Pleurobranchs of a typical prawn are attached to abdominal segments bearing pleopods.

Statement (II) : A typical prawn has three pleurobranchs.

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 3110

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Sharks are categorized under the class Elasmobranchii.

Reason (R) : Sharks have gill slits positioned laterally on either side of the head.

In light of the above statements, choose the ***most appropriate*** answer from the options given below.

1. Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**.
2. Both **(A)** and **(R)** are correct but **(R)** is NOT the correct explanation of **(A)**.
3. **(A)** is correct but **(R)** is not correct.
4. **(A)** is not correct but **(R)** is correct.

4.0 1.00

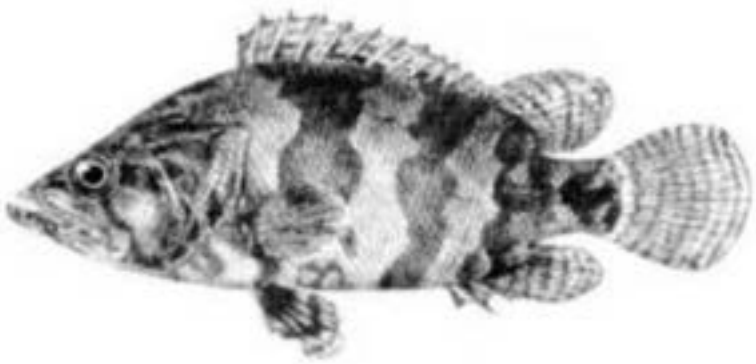
A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

11	3111	Identify the family of the fish species given in the picture  1. Cichlidae 2. Terapontidae 3. Nandidae 4. Latidae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
12	3112		4.0	1.00

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

List-I (Common name)	**List-II** (Family)
(A) Periwinkles	(I) Buccinidae
(B) Whelks	(II) Ampullariidae
(C) Chanks	(III) Littorinidae
(D) Apple snails	(IV) Turbinellidae

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

13	3113		4.0	1.00

Choose the penaeid shrimps from the following groups :

(A) *Parapenaeopsis stylifera*

(B) *Acetes indicus*

(C) *Aristeus alcocki*

(D) *Solenocera hextii*

(E) *Nematopalaemon tenuipes*

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

14	3114	The presence of a sucking disc with 10-28 transverse movable laminae on the head is the striking taxonomic feature of which family ? 1. Rachycentridae 2. Echeneidae 3. Catastomidae 4. Sphyrnidae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

15	3115		4.0	1.00

Arrange the following fishes based on number of dorsal fin spines they have, starting from the least to the most :

(A) *Mugil cephalus*

(B) *Sillago sihama*

(C) *Arius arius*

(D) *Sphyraena barracuda*

(E) *Oreochromis mossambicus*

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

16	3116	As per the analytical models of fish stock assessment, presence of too many old fish in the stock is an indicative of : 1. Growth overfishing 2. Recruitment overfishing 3. Underfishing 4. Eumetric fishing A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

17	3117		4.0	1.00

With the increase in fishing effort, what is the correct sequence of the following that occur in a typical marine fishery ?

1. Maximum sustainable yield – Maximum economic yield – Open access equilibrium
2. Maximum economic yield – Open access equilibrium – Maximum sustainable yield
3. Maximum sustainable yield – Open access equilibrium – Maximum economic yield
4. Maximum economic yield – Maximum sustainable yield – Open access equilibrium

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

18	3118	Selection curve expected from a standard gillnet is : 1. Sigmoid 2. Asymptotic 3. Linear 4. Bell shaped A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

19	3119		4.0	1.00

Which among the following models do not require biological data inputs for fish stock assessment ?

(A) Surplus production model

(B) Thompson and Bell prediction model

(C) Relative response model

(D) Yield per recruit model

(E) Swept area method

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

20	3120	As per FAO World Aquaculture and Fisheries Statistics (2022), which country leads in inland waters capture production in the year 2020 ? 1. China 2. India 3. Indonesia 4. Bangladesh A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

21	3121		4.0	1.00

Arrange the following west flowing Indian rivers from northernmost to southernmost based on their joining point to Arabian Sea :

(A) Narmada

(B) Mahi

(C) Periyar

(D) Tapi

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

22	3122	Suckermouth catfish or Pleco, an exotic fish species frequently being recorded in Indian waters, is native to : 1. South America 2. North America 3. China 4. Africa A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

23	3123		4.0	1.00

		The most productive fishing area which produces largest global marine capture fish is : 1. Northwest Atlantic 2. Northeast Atlantic 3. Northwest Pacific 4. Northeast Pacific A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
24	3124	Lobsters are most abundant and form a significant fishery in the state of : 1. Andhra Pradesh 2. Karnataka 3. Goa 4. Gujarat A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
25	3125	The most dominant species of *Labeo* in the river Cauvery is : 1. *Labeo dyocheilus* 2. *Labeo boga* 3. *Labeo kontius* 4. *Labeo calbasu* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
26	3126	What is the world latest fish production as per FAO, 2022 ? 1. 89 mmt 2. 232 mmt 3. 214 mmt 4. 184 mmt A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
27	3127	World latest aquaculture production (2022) is : 1. 98.5 mmt 2. 87.5 mmt 3. 224 mmt 4. 124 mmt A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
28	3128	Total Indian fish production (2021-22) is : 1. 16.25 mmt 2. 14.2 mmt 3. 10.8 mmt 4. 22. 4 mmt A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
29	3129	What is the total value of fish and fishery products exported to overseas countries from India in 2021-22 ? 1. Rs. 37,585. 6 crores 2. Rs. 47,0285 crores 3. Rs. 67,585 crores 4. Rs. 57,586.5 crores A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
30	3130	What is the contribution of Indian fisheries to national economy (GVA/GDP) and to Agricultural economy respectively in 2021-22 ? 1. 2.1% and 8.89% 2. 1.0% and 4.78% 3. 1.1% and 6.72% 4. 0.98% and 5.36% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
31	3131	Breeding and hatchery technology of the following fish was developed by the CMFRI : 1. Seabass 2. Pearl spot 3. Tilapia 4. Cobia A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
32	3132	Which of the following fish variety was developed through selective breeding by the Worldfish Center (ICLARM) ? 1. Seabass 2. Jayanthi rohu 3. GIFT Tilapia 4. GI Scampi A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
33	3133	Which among the following fishes is relatively a new introduction in Indian freshwater aquaculture ? 1. Catla 2. Tilapia 3. Rohu 4. Pangasius A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
34	3134		4.0	1.00

		The weight of fish produced divided by the feed is given as : 1. Food conversion efficiency 2. Food conversion ratio 3. Protein efficiency ratio 4. Specific growth rate A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
35	3135	Which of the following fish is carnivorous fish ? 1. Tilapia 2. Pacu or roopchand 3. Mullet 4. Mrigal A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
36	3136	Which of the following variety of fish was developed by the CIFA through selective breeding ? 1. GIFT Tilapia 2. GI Common carp 3. GI Mrigal 4. Jayanthi rohu A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

37	3137	The energy values (kcal/g) available from nutrients, protein and lipid are ? 1. 4 and 5 2. 5 and 4 3. 5 and 9 4. 9 and 4 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

38	3138	Which component of the energy in the food less the energy lost in faeces, urine and gills? 1. Metabolizable energy 2. Gross energy 3. Basal energy 4. Net energy A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

39	3139	Which group of fish are primarily cultured in Japan, Europe and North America, and are largely marine fishes ? 1. Herbivores 2. Omnivores 3. Plankton feeders 4. Carnivores A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
40	3140	In biofloc system of culture, what is more important ? 1. C : P ratio 2. N : P ratio 3. C : N ratio 4. C : K ratio A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
41	3141	Indian major carps were bred for the first time through induced breeding in the year ? 1. 1969 2. 1957 3. 1973 4. 1947 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
42	3142	Adhesive eggs are seen in case of which fish ? 1. Catla 2. Mrigal 3. Common carp 4. Tilapia	4.0	1.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
43	3143	The scientist/s who developed the hypophysation technique for breeding of Indian major carps for the first time in India ? 1. S L Hora 2. T V R Pillay 3. V G Jhingran 4. Alikunhi K H and H Choudhri A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
44	3144	In the induced breeding of Indian major carps, which of the following statements are correct ? (A) Pituitary glands are preferred over Ovaprim. (B) Ovaprim is ready to use liquid form available in 10 ml vial, has consistency and given reliable results. (C) Ovatide is an indigenous, cost effective hormonal formulation. (D) GnRH is a steroidal hormone belongs to class of substances called peptides. Choose the ***correct*** answer from the options given below : 1. (A) and (B) only 2. (C) and (D) only 3. (B) and (C) only 4. (A) and (D) only A1 : 1	4.0	1.00

A2 : 2

A3 : 3

A4 : 4

Objective Question

45 3145

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

List-I (Shellfish)	**List-II** (Larval stage)
(A) Crab	(I) Phyllosoma
(B) Lobster	(II) Zoea
(C) Scampi	(III) Glochidium
(D) Freshwater mussel	(IV) Megalopa

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

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

4.0 1.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

46 3146

4.0 1.00

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

List-I (Feed ingredients)	List-II (Used as a source of)
(A) Groundnut cake	(I) Binder
(B) Tapioca floor	(II) Protein
(C) Ethoxyquin	(III) Carbohydrate
(D) Rice bran	(IV) Antioxidant

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

47 3147 4.0 1.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Extruded feed manufacture, high temperature high moisture and high pressure are used.

Reason (R) : In extruded feed production, small air pockets are formed inside pellets and they float in the water.

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

48 | 3148 | 4.0 | 1.00

Given below are two statements :

Statement (I) : Too many species used in freshwater aquaculture in India, which is not a good sign.

Statement (II) : Diversification of species is necessary in the Indian freshwater aquaculture.

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 incorrect but **Statement (II)** is correct.
4. **Statement (I)** is correct but **Statement (II)** is incorrect.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

49 | 3149 | 4.0 | 1.00

Given below are two statements :

Statement (I) : African catfish is a fast growing one and recommended for culture in India.

Statement (II) : Pangasius catfish is a suitable species for freshwater aquaculture.

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. **Statement (I)** is incorrect and **Statement (II)** is correct.
3. **Statement (I)** is correct but **Statement (II)** is incorrect.
4. Both **Statements (I)** and **Statement (II)** are incorrect.

A1 : 1

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
50	3150	Given below are two statements : **Statement (I) :** Gold fish eggs are adhesive. **Statement (II) :** Common carp eggs are adhesive. 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				
51	3151	Utilising a living microorganism to break down an environmental pollutant is referred to: 1. Microremediation 2. Nanoremediation 3. Bioremediation 4. Macroremediation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
52	3152	Where is the ozone layer located in the atmosphere ? 1. Troposphere 2. Stratosphere 3. Mesosphere 4. Ionosphere A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
53	3153	When was the Ganga Action Plan (GAP) introduced in India ? 1. 1980 2. 1985 3. 1988 4. 1991 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
54	3154	How many parts per million (ppm) does a concentration of 0.01% represent ? 1. 1 ppm 2. 10 ppm 3. 100 ppm 4. 1000 ppm A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
55	3155	Species which are threat to biodiversity are ? 1. Keystone species 2. Invasive species 3. Flagship species 4. Indicator Species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
56	3156	Which of the following is a waterborne disease ? 1. Typhoid 2. Measles 3. Sarcoma 4. Arthritis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
57	3157	The area in deep lakes which is beyond the influence of the shore or bottom is termed as: 1. Aphotic zone 2. Profoundal zone 3. Limnetic zone 4. Disphotic zone A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
58	3158	All of the following species are considered coliforms, except : 1. *Enterobacter aerogenes* 2. *Klebsiella pneumonia* 3. *Salmonella typhi* 4. *Escherichia coli* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
59	3159	Which of the following salts is the main cause of permanent hardness of water ? 1. Magnesium sulphate 2. Magnesium bicarbonate 3. Magnesium carbonate 4. Calcium Sulphate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	3160		4.0	1.00

		The book 'Silent Spring', which was written by Rachel Carson, documented : 1. Adverse environmental effects caused by pesticides 2. Adverse environmental effects caused by ozone depletion 3. Adverse environmental effects caused by heavy metals 4. Adverse environmental effects caused by radioactive pollutants A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
61	3161	Nephelometer is used to measure : 1. Dissolved oxygen 2. Carbon dioxide 3. pH 4. Turbidity A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
62	3162	Increase in concentration of chemical substance along the trophic level of food chain is called : 1. Bioconcentration 2. Bioremediation 3. Biomagnification 4. Biotransformation A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
63	3163	Synecology is a study of inter relationship between environment and : 1. Individual plant 2. A population 3. A community 4. Individual animal A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	3164	Montreal protocol is related to : 1. Global warming 2. Ozone layer depletion 3. Sustainable development 4. Food security A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	3165	Which of the following ocean current is associated with Indian Ocean ? 1. Agulhas Current 2. Canary Current 3. Kurile Current 4. Florida Current A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
66	3166	A universal process of directional change in community composition on an ecological time scale is called : 1. Displacement 2. Evolution 3. Succession 4. Extinction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
67	3167	In most freshwater lakes, the algal productivity is limited by the availability of which of the following inorganic ions ? 1. Carbon 2. Nitrogen 3. Phosphorus 4. Sulphur A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
68	3168		4.0	1.00

		How many bio-geographical regions are present in India ? 1. 3 2. 4 3. 7 4. 10 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
69	3169	Large body of water, sometimes with a narrow mouth, that is almost completely surrounded by land is called : 1. Estuary 2. Gulf 3. Strait 4. Cape A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
70	3170	Mapping of ocean bottom features is called : 1. Bathymetry 2. Thermometry 3. Geometry 4. Oceanometry A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
71	3171	Which fish disease is not listed in OIE list ? 1. Infection with viral haemorrhagic septicaemia virus 2. Infection with Gyrodactylus salaris 3. Infection with Aphanomyces invadans 4. Infection with Ichthyophthirius multifiliis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
72	3172	Programmed cell death is called : 1. Necrosis 2. Apoptosis 3. Pyknosis 4. Karyolysis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
73	3173	B cells and T cells are type of : 1. Neutrophils 2. Basophils 3. Lymphocytes 4. Antibodies A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
74	3174	Which one of the following is an acute phage protein ? 1. Complement 2. Antigen 3. Antibody 4. CRP A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
75	3175	Which of the following is called as transboundary movement of disease ? 1. Panzootic 2. Epizootic 3. Enzootic 4. Zoonotic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
76	3176	Which of the following is a gram positive pathogenic bacteria ? 1. *Yersinia ruckeri* 2. *Aeromonas hydrophila* 3. *Streptococcus iniae* 4. *Flavobacterium columnare*	4.0	1.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
77	3177	Which one is involved in specific immune system ? 1. Lymphocytes 2. Monocytes 3. Neutrophils 4. Basophils A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
78	3178	Which of the following is not a prophylaxis measure in aquaculture ? 1. Probiotic 2. Antibiotic 3. Immunostimulant 4. Biosecurity A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
79	3179		4.0	1.00

		Which one is not a nucleic acid based technique ? 1. PCR 2. LAMP 3. FAME 4. RFLP A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
80	3180	Oxytetracycline antibiotics inhibits : 1. DNA synthesis 2. Protein synthesis 3. Carbohydrate synthesis 4. Lipid synthesis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
81	3181	Which one of the following spoilages does not occur in canned products ? 1. Blue discoloration 2. Curding 3. Dun spoilage 4. Struvite formation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

82 | 3182 | 4.0 | 1.00

Given below are two statements :

Statement (I) : Only hot and cold process are used for preparation of dyeing bath for fishing net.

Statement (II) : Hot, cold and cutch methods are used for preparation of dyeing bath for fishing net.

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

83 | 3183 | 4.0 | 1.00

Given below are two statements :

Statement (I) : Verandah nets are basically barriers.

Statement (II) : Chinese dip nets are widely used in Kerala backwaters.

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

84	3184	Food Safety Standard Authority of India (FSSAI) was formed in which year ? 1. 2006 2. 2008 3. 2005 4. 2009 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

85	3185	Given below are two statements : **Statement (I) :** Otter boards in gill nets are used for horizontal opening. **Statement (II) :** Floats and sinkers are used for vertical opening. 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. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

86	3186		4.0	1.00

Given below are two statements :

Statement (I) : Fish marinates are preserved in a mixtures acetic acid and salt.

Statement (II) : Scromboid food borne illness may occur due to eating the tuna.

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.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

87 3187 4.0 1.00

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

List-I (Disease symptoms due to toxins)	**List-II** (Causative factor)
(A) Amnesic shellfish poisoning (ASP)	(I) *Alexandrium catenella*
(B) Diarrheal shellfish poisoning (DSP)	(II) *Karenia brevis*
(C) Neurotoxic shellfish poisoning (NSP)	(III) $C_{44}H_{68}O_{13}$
(D) Paralytic shellfish poisoning (PSP)	(IV) Domoic acid

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

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

A1 : 1

A2 : 2

		A3 : 3 A4 : 4		
Objective Question				
88	3188	Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**. **Assertion (A) :** Life buoy is a life safety appliance. **Reason (R) :** It is designed to be thrown to a person in water, to provide buoyancy and prevent drowning. 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				
89	3189	Acceptable limit of Total Volatile Base Nitrogen (TVB-N) in fish muscle is : 1. 35-40 mg/100g 2. 30-35g/100g 3. 25-30mg/100g 4. 40-45mg/100g A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
90	3190		4.0	1.00

Arrange steps involved in ATP breakdown during post-mortem changes in fish.

(A) AMP-IMP-

(B) ATP-ADP-

(C) Inosine-Hypoxanthine-

(D) Xanthine-Uric Acid-

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

91	3191	What are the prerequisite programs of HACCP to practice in fish processing industry ? (A) Fishing (B) GMP (C) SSOP (D) Pest control program Choose the ***correct*** answer from the options given below : 1. (B), (C) and (D) only. 2. (A), (B) and (D) only. 3. (A), (B), (C) and (D). 4. (B) and (C) only. A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
92	3192	Most of the food spoilgae pathogens are : 1. Psychrophiles 2. Thermophiles 3. Mesophiles 4. Psychrotrophs A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
93	3193	TCBS agar is used for the isolation of : 1. *Aeromonas hydrophila* 2. *Vibrio cholerae* 3. *Escherichia coli* 4. *Listeria monocytogenes* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
94	3194	ISO 22000 refers to which of the following ? 1. QMS 2. HACCP 3. FSMS 4. NABL A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

95 | 3195 | 4.0 | 1.00

Pink spoilage in salted fish is caused by :

1. *Sarcina*
2. *Serriata*
3. *Sporendonema*
4. *Micrococcus*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

96 | 3196 | 4.0 | 1.00

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

List-I (Amino acid)	**List-II** (Nature of amino acid)
(A) Methionine	(I) Predominate amino acid in fish
(B) Glycine	(II) Non-protein amino acid
(C) Taurine	(III) Simple amino acid
(D) Lysine	(IV) Sulfur containing amino acid

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

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

97 | 3197 | 4.0 | 1.00

Statement (I) : Seine net is very long net, designed to surround the fish school.

Statement (II) : Beach seine is known as round haul seine.

In light of the above statements, choose the ***correct*** 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 and **Statement (II)** is false.
4. **Statement (I)** is false and **Statement (II)** is true.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

98 | 3198 | 4.0 | 1.00

Which is the specific spolilage organism in fresh fish ?

1. *Shewanella*
2. *Shigella*
3. *Staphylococcus*
4. *Aeromonas*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

99 | 3199 | 4.0 | 1.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Any message prefixed with MAYDAY concern safety.

Reason (R) : It indicates that a ship, aircraft, or other vehicle is threatened by grave and imminent danger and request immediate assistance.

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

100	3200	Which is the responsible organism for listeriosis? 1. *Listeria ivanovii* 2. *L. grandensis* 3. *L. monocytogenes* 4. *L. seeligeri* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

101	3201		4.0	1.00

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

List-I (Fatty acid)	List-II (Function)
(A) Linolenic acid	(I) Eye and brain health
(B) Alpha Linoleic acid (ALA)	(II) Heart health
(C) Eicosapentaenoic acid (EPA)	(III) Omega – 6 fatty acid
(D) Docosahexaenoic acid (DHA)	(IV) Essential fatty acid

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

102	3202	An additive used to control fungal infestation in dry fish : 1. Sorbitol 2. Polyphosphate 3. Citric acid 4. Potassium sorbate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

103	3203		4.0	1.00

Given below are two statements, one is labelled as **Assertion (A)** and other one labelled as **Reason (R)**.

Assertion (A) : Rigor mortis is caused by the breakdown of the glycogen of the muscle into lactic acid.

Reason (R) : It is a sign of freshness.

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

104	3204	Name the sensory method recommended for fish quality testing in fish landing centers ? 1. Deo-trio test 2. Torry scheme 3. FSSAI grading 4. EU grading A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

105	3205		4.0	1.00

		Which is the authorized body to issue the health certificate for seafoods ? 1. MPEDA 2. FSSAI 3. EIA 4. BIS A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
106	3206	What is the annual fishing mortality rate, if the fishing effort is 8000 vessels and catchability coefficient is 5 X 10^{-4} per vessel per year ? 1. 2.0 2. 4.0 3. 1.6 4. 3.2 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
107	3207		4.0	1.00

Choose the non-parametric tests among the following :

(A) Mann-Whitney test

(B) Pearson correlation

(C) Spearman's rank correlation

(D) t-test

(E) The *Wilcoxon* signed-rank test

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

108	3208	In which of the following distribution, mean is equal to variance ? 1. t distribution 2. Poisson distribution 3. Binomial distribution 4. Chi-square distribution A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

109	3209		4.0	1.00

An aquarium contains 4 goldfishes, 6 swordtails and 10 tetras. What is the probability that a fish randomly selected is a goldfish or a tetra ?

1. 2/7
2. 5/7
3. 7/10
4. 1/4

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

110	3210	Arrange the following acts chronologically starting from the earliest to the latest of their introduction. (A) The Biological Diversity Act (B) Environment (Protection) Act (C) Indian Fisheries Act (D) Coastal Aquaculture Authority Act (E) Wildlife (Protection) Act Choose the ***correct*** answer from the options given below : 1. (C), (E), (A), (B), (D). 2. (B), (C), (E), (D), (A). 3. (C), (E), (B), (D), (A). 4. (C), (E), (B), (A), (D). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

111	3211		4.0	1.00

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

List-I (Scientist)	List-II (Concept)
(A) Rogers and Shoemaker	(I) Intelligence
(B) Daniel Benor	(II) Communication
(C) Edgar Dale	(III) Training and Visit
(D) Wechsler	(IV) Cone of Experience

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112 3212

Which two groups of people together constitute the maximum percentage share in the product adoption process ?

1. Innovators and Early majority
2. Early majority and Late majority
3. Early adopters and Early majority
4. Late majority and Laggards

4.0 1.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

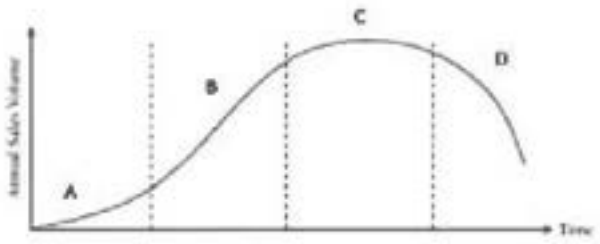
113 3213

4.0 1.00

		Which is the basic unit of rural society ? 1. Village 2. Community 3. Population 4. Family A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
114	3214	A navigation journey flagged off in March 2022 from Mandvi to disseminate fisheries schemes to coastal and, promoting sustainable fisheries and protection of marine ecosystems : 1. Sagar Nidhi 2. Sagar Mitra 3. Sagar Parikrama 4. Sagar Matsyajeevi A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
115	3215	'CADALMIN' is the trademark of : 1. ICAR-CMFRI 2. ICAR-CIBA 3. Fishery Survey of India 4. National Institute of Oceanography A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
116	3216	Largest market for Indian frozen shrimp exports during 2021-22 is : 1. Thailand 2. United States of America 3. Japan 4. China A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
117	3217	Given below are two statements : **Statement (I) :** Monopsony is a perfect competition. **Statement (II) :** Monopoly is an imperfect competition. 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. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
118	3218		4.0	1.00

Study the product life cycle diagram as given. If A, B, C and D represent different stages of product life cycle, which stage is most expensive stage ?



1. Stage A
2. Stage B
3. Stage C
4. Stage D

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

119	3219	Breakeven point is the ratio of which of the following cost to contribution margin per unit ? 1. Capital cost 2. Variable cost 3. Fixed cost 4. Product of capital cost and variable cost A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

120	3220		4.0	1.00

TRIPS, associated with WTO stands for :

1. Tariff-Related Aspects of Intellectual Property Rights
2. Trade-Related Aspects of International Property Rights
3. Trade-Related Aspects of Intellectual Property Rights
4. Tourism-Related Intellectual Property Rights

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Entrance Exams

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