PREVIEW QUESTION BANK

Module Name : FISHERIES SCIENCES-ENG
Exam Date : 14-Jul-2023 Batch : 10:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	3201	Match **List-I** with **List-II** **List-I (Reservoir/dam)** / **List-II (River)** (A). Idukki — (I). Beas (B). Nagarjuna Sagar — (II). Periyar (C). Jayakwadi — (III). Krishna (D). Pong — (IV). Godavari Choose the **correct** answer from the options given below: 1. (A) - (I), (B) - (IV), (C) - (III), (D) - (II) 2. (A) - (II), (B) - (III), (C) - (I), (D) - (IV) 3. (A) - (I), (B) - (II), (C) - (IV), (D) - (III) 4. (A) - (II), (B) - (III), (C) - (IV), (D) - (I) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	3202	*Piaractus brachypomus* is native to 1. North America 2. South America 3. China 4. Africa A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	3203		4.0	1.00

		Which category of lobsters forms a major fishery along the Indian coast? 1. Sand lobsters 2. Spiny lobsters 3. Cape lobsters 4. True lobsters A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
4	3204	Arrange the following marine zones according to their distance from the shoreline to the seaward beginning from the nearest to the farthest (A). High sea (B). Contiguous zone (C). Territorial water (D). Exclusive Economic Zone Choose the **correct** answer from the options given below: 1. (A), (C), (B), (D). 2. (C), (A), (B), (D). 3. (C), (B), (D), (A). 4. (D), (C), (B), (A). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	3205	The most dominant gear in Hooghly-Matlah estuary 1. Trap 2. Bag net 3. Lampara net 4. Drag net A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
6	3206	Which of the following has the meaning 'harbour wave'? 1. Tsunami 2. Hurricane 3. Cyclone 4. Seiche A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
7	3207	The presence of 5 spines in the first dorsal fin and a large mouth with fang-like teeth are the striking taxonomic features of 1. Sphyrnidae 2. Sphyraenidae 3. Scombridae 4. Mugilidae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	3208	Identify the species given in the picture  1. Basking shark 2. Blue whale 3. Tiger shark 4. Whale shark A1 : 1	4.0	1.00

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 | 3209 | 4.0 | 1.00

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

List-I	**List-II**
(Common name)	**(Group)**
(A). Mantis shrimp	(I). Mysid
(B). Clam shrimp	(II). Stomatopod
(C). Seed shrimp	(III). Branchiopod
(D). Opossum shrimp	(IV). Ostracod

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 | 3210 | 4.0 | 1.00

What is the vernacular name of the fringed-lipped peninsula carp?

1. *Labeo kontius*
2. *Labeo fimbriatus*
3. *Labeo dyocheilus*
4. *Labeo dussumieri*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

11 | 3211 | 4.0 | 1.00

Thin-walled, lamellate structures present on the coxal segment of each maxilleped in a typical prawn are called

1. Protopodites
2. Exopodites
3. Endopodites
4. Epipodites

A1 : 1

A2 : 2

A3 : 3

A4 : 4

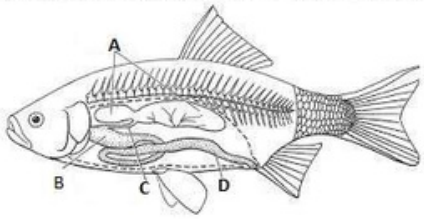
Objective Question

12	3212	Species given in the picture belongs to which group of molluscs?  1. Gastropod 2. Monoplacophora 3. Polyplacophora 4. Cephalopod A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

13	3213		4.0	1.00

Identify the part marked as 'C' in the given picture?



1. Weberian ossicles
2. Pneumatic duct
3. Wolffian duct
4. Pyloric caeca

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

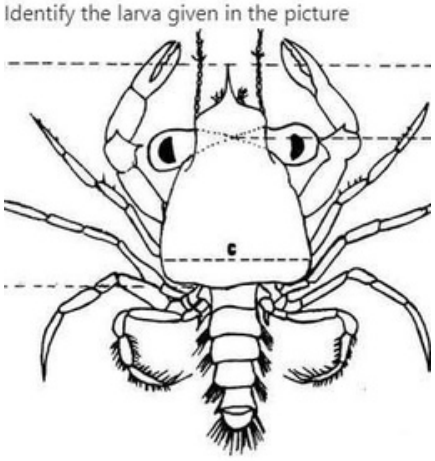
14	3214	Which of the following best explains the cleavage type in a typical teleost? 1. Meroblastic, Telolecithal, Discoidal 2. Holoblastic, Telolecithal, Bilateral 3. Meroblastic, Centrolecithal, Discoidal 4. Holoblastic, Centrolecithal, Bilateral A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

15	3215	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A): Marine elasmobranchs are slightly hyperosmotic to their environment. Reason (R): Marine elasmobranchs have a considerable amount of urea and trimethylamine in their plasma. 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. A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
16	3216	Sensory receptors in lateral line system of fishes are 1. Cyanocytes 2. Neuromasts 3. Chloride cells 4. Statocysts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	3217	In fishes, hypocalcin is secreted by 1. Thyroid gland 2. Ultimobranchial bodies 3. Pancreas 4. Corpuscles of Stannius A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
18	3218		4.0	1.00

Identify the larva given in the picture



1. Zoea
2. Veliger
3. Megalopa
4. Nauplius

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

19	3219	Xanthophores impart which colour in fishes? 1. Red 2. Brown 3. Yellow 4. Black A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

20	3220	Radula, in molluscs, is supported by 1. HIngle ligament 2. Odontophore 3. Operculum 4. Umbone A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
21	3221	Which one of the following is NOT an ecological adaptation of a typical coldwater fish? 1. Clinging and burrowing 2. Reduced power of locomotion 3. Narrow gill opening 4. Modified lips for feeding on periphyton A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	3222	A broad class of computational algorithms that rely on repeated random sampling to obtain numerical results 1. Monte Carlo method 2. Buffon's method 3. Cushing method 4. Munro method A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
23	3223	Given below are two statements: Statement (I): Long-living fishes approach asymptotic length slowly. Statement (II): Fishes with high longevity will generally have a high natural mortality rate. 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				
24	3224	Which model is one of the age-structured models? 1. Relative response model 2. Surplus production model 3. Virgin stock model 4. Yield per recruit model A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
25	3225	Which of the following relationship gives an asymptotic curve? 1. Fishing effort and yield 2. Age and length of fish 3. Fishing effort and CPUE 4. Cushing's fish stock recruitment relationship A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
26	3226		4.0	1.00

		Given below are two statements: Statement (I): In the reciculatory aquaculture system, requirement of water is minimal. Statement (II): In the reciculatory aquaculture system, water pass through biological filters. 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				
27	3227	In the aquaponics system, which of the following fishes are suitable for culture ? 1. Silver carp 2. Catla 3. Tilapia 4. Pacu A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
28	3228	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	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
29	3229	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. 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				
30	3230	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In the production of extruded feed manufacture, high temperature and high pressure are used. Reason (R) : In the 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	4.0	1.00
Objective Question				
31	3231		4.0	1.00

List-I	List-II
Feed ingredients	**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) - (I), (B) - (III), (C) - (II), (D) - (IV)
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

32 3232

4.0 1.00

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

33	3233	In the induced breeding of Indian major carps, which of the follwing 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), (B), (C), (D). 2. (A) and (D) only 3. (C) and (D) only 4. (B) and (C) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

34	3234	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. Alikunhi K H and H Choudhri 3. T V R Pillay 4. V G Jhingran A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

35	3235	What is the world latest fish production (FAO,2022) ? 1. 214 mmt 2. 224 mmt 3. 189 mmt 4. 197 mmt A1 : 1 A2 : 2	4.0	1.00

		A3 : 3 A4 : 4		
Objective Question				
36	3236	World latest aquaculture production (FAO, 2022) is 1. 124 mmt 2. 224 mmt 3. 98.5 mmt 4. 87.5 mmt A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
37	3237	What is the ideal plant crop for aquaponics system? 1. Banana 2. Spinach 3. Potato 4. Papaya A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
38	3238	In the breeding of Indian major carps on a large scale, which of the following is more commonly used ? 1. Glass jar hatchery 2. Vertical hatchery 3. Cicular hatchery 4. Hapa method A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
39	3239	In the fish feed storage, which of the following is more common type of spoilage ? 1. Bacteria 2. Viruses 3. Worms 4. Moulds A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
40	3240	Which is the predominant species cultured presently in the brackishwater aquaculture in India ? 1. Tiger shrimp 2. Banana prawn 3. Indian white shrimp 4. Whiteleg shrimp A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
41	3241	What is most important factor in the biofloc system of culture ? 1. Carbon 2. Phosphorus 3. Potash 4. Magnesium A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
42	3242		4.0	1.00

		What is the preferred fish food oganisms for spawn of Indian major carps ? 1. Ostracode 2. Rotifers 3. Cladocerans 4. Isopods A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
43	3243	Predatory and weed fishes in the pond can be controlled by 1. Mahua oil cake 2. Kerosine 3. Diesel 4. Cotton seed cake A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
44	3244	Highest fish production carps in experiemental conditions was obtained by employing 1. Three species 2. Four species 3. Two species 4. Six species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
45	3245		4.0	1.00

Given below are two statements:

Statement (I): When organic fertilizers are used zooplanakton will develop through saphrophytic food chain.

Statement (II): When inorganic fertilizers are used zooplanakton will develop through saphrophytic food chain.

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

46	3246	The book : "Aquaculture: Principles and Practices" was written by 1. V G Jhingran 2. Ayyappan S 3. T V R Pillay 4. S L Hora A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

47	3247	Which of the follwing fish is a protandrous hermaphrodite ? 1. Tilapia 2. Asian Seabass 3. Catla 4. Cobia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

48	3248	In the manufacture of extruded fish feeds, which of the following statements are true ? (A). High temperature, high pressure and high moisture are used. (B). Low temperature, high pressure and high moisture are used. (C). Low moisture, low pressure and high temperature are used. (D). Low pressure, low temperature and low moisture are used. Choose the **correct** answer from the options given below: 1. (A) only 2. (A) and (B) only 3. (B) and (C) only 4. (C) and (D) only A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

49	3249	Which of the following fish is protogynous hermaphrodite ? 1. Barramundi 2. Tilapia 3. Grouper 4. Pampano A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

50	3250	In *Macrobrachium rosenbergii* males, how many common morphotypes are observed ? 1. Two 2. One 3. Six 4. Three A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

51	3251	Which of the following is a secondary air pollutant? 1. Ozone 2. Carbon dioxide 3. Carbon monoxide 4. Sulphur dioxide A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

52	3252	Immediate harmful effects on human body parts due to Fluoride pollution 1. Kidney 2. Brain 3. Heart 4. Teeth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

53	3253	First notification of EIA in India came in the year 1. 1986 2. 1994 3. 1974 4. 2006 A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
54	3254	A concentration of 0.1 % is equivalent to how many parts per million (ppm)? 1. 1 ppm 2. 10 ppm 3. 100 ppm 4. 1000 ppm A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
55	3255	Species that serve as early warnings of environmental damage are called 1. Keystone species 2. Native species 3. Specialist species 4. Indicator species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
56	3256	Which of the following genus of bacterium is not found in freshwater? 1. *Pseudomonas* 2. *Flavobacterium* 3. *Aeromonas* 4. *Vibrio* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

57	3257	Lakes, having uniform density and temperature regardless of depth in a particular period of the year, are called 1. Polymictic Lakes 2. Dimictic Lakes 3. Monomictic Lakes 4. Holomictic Lakes A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
58	3258	Which of the following is not a biofertilizer? 1. *Salmonella* 2. *Rhizobium* 3. *Nostoc* 4. *Azolla* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
59	3259	Which of the following does not cause the permanent hardness in water? 1. Nitrite 2. Nitrates 3. Chlorides 4. Bicarbonates A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	3260		4.0	1.00

		Transparency of water is measured by 1. Secchi disc 2. Salinometer 3. Hydrometer 4. Anemometer A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
61	3261	Methemoglobinemia disease is caused by 1. Lead levels in ground water 2. Mercury levels in ground water 3. Nitrate in ground water 4. Iron in ground water A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
62	3262	Interspecific relationship where one species suffer and other species experience no effect is 1. Commensalism 2. Ammensalism 3. Mutualism 4. Predation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
63	3263		4.0	1.00

		Kyoto Protocol is related to 1. Greenhouse gas 2. Pesticide pollution 3. Water Pollution 4. Ozone depletion A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
64	3264	Gulf stream is which type of current? 1. Cold water current 2. Warm water current 3. Bottom current 4. Inshore current A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	3265	Toxin responsible for Paralytic shellfish poisoning is 1. Saxitoxin 2. Brevetoxin 3. Okadaic acid 4. Domoic acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
66	3266		4.0	1.00

		Number of 'Biodiversity Hotspots' in the Word is 1. 32 2. 36 3. 24 4. 96 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
67	3267	Which of the following light can penetrate deepest in the ocean water? 1. Red 2. Blue 3. Green 4. Yellow A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
68	3268	Highest point of wave is called 1. Crest 2. Trough 3. Current 4. Heave A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
69	3269		4.0	1.00

		Which one of the following is formed due to river meandering? 1. Bog 2. Peat 3. Ox-bow lakes 4. Salt marsh A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
70	3270	Energy flow in ecosystem is given by: 1. Haeckel 2. Odum 3. Tansely 4. Victor Hensen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
71	3271	Cytopathic effect in a host cell is due to result of 1. Fungal infection 2. Bacterial infection 3. Viral infection 4. Parasitic infestation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
72	3272		4.0	1.00

		Any agents added to vaccines to stimulate the immune system and enhance the response without having an antigenic effect by itself are called 1. Antigens 2. Allergens 3. Adjuvants 4. Carriers A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
73	3273	Headquarter of Office of International Epizootics is located in which country? 1. Thailand 2. Malaysia 3. France 4. USA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
74	3274	Complete dissociation of chromatin material in the nucleus is termed as 1. Karyorhexis 2. Karyolysis 3. Pyknosis 4. Nucleolysis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
75	3275		4.0	1.00

		Constant presence of a disease or infectious agent within a given geographic area or population group is termed as 1. Epizootic 2. Enzootic 3. Panzootic 4. Zoonotic A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
76	3276	Immunoglobulin's function is 1. Vasodilation 2. Chemotaxis 3. Activation of complement system 4. Inflammation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
77	3277	The process of acute inflammation is initiated by the action of 1. Vasoactive amines 2. Complement 3. Thromboplastin 4. Antibody A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
78	3278		4.0	1.00

		The only anesthetic currently approved by the USFDA for use on food fish is 1. MS-222 2. Benzocaine 3. Quinaldine 4. Clove oil A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
79	3279	The process of weakening a pathogen for preparing a vaccine is called 1. Immunization 2. Attenuation 3. Vaccination 4. Virulence reduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
80	3280	The antibiotic permitted for use in aquaculture is, 1. Ciprofloxacin 2. Florfenicol 3. Amoxicillin 4. Ampicillin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
81	3281		4.0	1.00

		Lactic acid fish fermented product is 1. Ngapi 2. Nam-pla 3. Patis 4. Pla-ra A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
82	3282	What is the recommended dietary allowance (RDA) of EPA and DHA? 1. 1g 2. 2g 3. 3g 4. 4g A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
83	3283	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Isinglass is prepared from swimm bladder. Reason (R) : It is a form of collagen used mainly for the clarification or fining of some beer and wine. 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

84 | 3284 | 4.0 | 1.00

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

Assertion (A) : In trawl net, old pieces of webbing known as false belly.

Reason (R) : They are attached below the belly to act as chaffing gear.

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

85 | 3285 | 4.0 | 1.00

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

List-I	**List-II**
Fishing gear floats	**Buoyancy**
(A). Sponge plastic	(I). 650g/1000cc
(B). Thermocol	(II). 825g/1000cc
(C). Cork	(III). 900g/1000cc
(D). Wood	(IV). 800-860g/1000cc

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

86 | 3286 | 4.0 | 1.00

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

Assertion (A) : Trammel net is used to entangle the fins, scales, teeth etc. of fishes.

Reason (R) : It consists of two layers, one with larger meshes outside and another with smaller meshes inside.

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

87	3287	Which is the indigenous pathogenic bacteria in seafood? 1. *Enterococcus faecalis* 2. *Vibrio parahaemolyticus* 3. *Staphylococcus aureus* 4. *Morganella morganii* A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

88	3288		4.0	1.00

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

List-I	**List-II**
Fish by-products	**Body parts**
(A). Fish glue	(I). Epidermal layer
(B). Fish maws	(II). Skin and bones
(C). Gelatin	(III). Air bladder
(D). Pearl essence	(IV). Fish head

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

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

89 3289 4.0 1.00

Given below are two statements:

Statement I: Splicing is a method of joining ends of two ropes togethter or making an eye at the end of the rope.

Statement II : Eye splicing is a method of joining two ropes without increasing the thickness over the area of splice.

In light of the above statements, choose the *correct* 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

90 3290 4.0 1.00

Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R).
Assertion (A) : The Codex Alimentarius Commission was established in the year 1963 by the Food and Agriculture Organization (FAO) and World Health Organization (WHO) of the United Nations .

Reason (R) : It was developed to harmonized international food standards, guidelines and codes of practice to protect the health of consumers and ensure fair trade practices in the food trade.

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

91	3291		4.0	1.00

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

Assertion (A) : Colombo curing is the fish pickling process practiced in the South Canara and Malabar regions along the West Coast of the India.

Reason (R) : *Psidium guajava* fruit is very acidic in nature which is used for Colombo pickling of fish.

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

92	3292		4.0	1.00

Histamine producing bacteria in iced fish is

1. *Photobacterium*
2. *Staphylococcus*
3. *Salmonella*
4. *Shewanella*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

93 3293 4.0 1.00

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

List-I	**List-II**
Fishing gear	**Type of water body**
(A). Pole and line	(I). Lake
(B). Long/Dor	(II). Backwater
(C). Kola valai	(III). Hill stream
(D). Suthu valai	(IV). Sea

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

94 3294 4.0 1.00

Which is the major patghogen in ready-to-eat products?

1. *Listeria monocytogenes*
2. *Vibrio cholerae*
3. *Escherichia coli*
4. *Staphylococcus aureus*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

95	3295	Given below are two statements: Statement (I): Bull trawling or pair trawling is a specialized trawling method in which the mouth of the trawl is kept open by means of pair trawlers towing apart. Statement (II): In Japan Bull is known as pareja trawling. 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				
96	3296	The specific gravity of ferrocement is 1. 2.4 - 2.6 2. 2.8 - 3.0 3. 2.0 - 2.1 4. 3.1 - 3.3 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
97	3297	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Tonnage is a measure of ship's capacity. It can be expressed either in volume or weight. Reason (R) : Displacement tonnage is the amount of water displaced by a ship expressed in tons weight (1ton =1000kg i.e. 0.99m^3 of salt water or 1m^3 of fresh 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	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
98	3298	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Frozen tuna exhibit green/brown on cooking. Reason (R) : Browning is due to the formation of metmyoglobin in the muscle through autoxidation of ferrous myoglobin. 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				
99	3299	Given below are two statements: Statement (I): The most widely used fish detection instrument is the echo sounder. Statement (II): An echo sounder consists of only two major components: transducer and receiver. In light of the above statements, choose the *most appropriate* 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				
100	3300		4.0	1.00

		"Mush" condition in canned fish occurs due to 1. Protozoa 2. Fungus 3. Bacteria 4. Salt A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
101	3301	Which of the following compound gives sweet and meaty flavour to fish? 1. Inosine monophosphate 2. Inosine 3. Adenosine diphosphate 4. Hypoxanthine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
102	3302	Limit of *Escherichia coli* in Frozen Seafood (Cfu/g) 1. 0 2. 20 3. 100 4. 1000 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
103	3303		4.0	1.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Basic principle of marine engine is based on the latent heat energy of fuel is converted into mechanical energy in the case of heat engines. Reason (R) : Combustion takes place inside in terms of steam engine. 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	3304	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Sextant is a modern navigational instrument, which is used for the measurement of vertical and horizontal angles at sea. Reason (R) : It is an instrument of double reflection by means two mirrors and is capable of measuring angles up to 120^0 . 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				
105	3305		4.0	1.00

Scombroid poisoning is related to
(A). *Thunnus alalunga*

(B). *Coryphaena hippurus*

(C). *Labeo rohita*

(D). *Oreochromis niloticus*

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. (A) and (B) only.

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

106	3306	A single value used to estimate population parameter is called 1. Statistic 2. Point estimate 3. Variable 4. Estimator A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

107	3307	For a given set of data, if the difference between mean and mode is 36 what is the difference between mean and median? 1. 6 2. 12 3. 24 4. 36 A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
108	3308	A measure of the relationship between two random variables and to what extent they change together is 1. Covariance 2. Correlation 3. Regression 4. Coefficient of determination A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
109	3309	A pond contains 200 fishes of which 40 are marked. A second pond contains 300 fishes of which 50 are marked. One fish is drawn from each of the ponds. What is the probability that the fishes drawn are both marked? 1. 1/90 2. 1/60 3. 1/30 4. 1/11 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
110	3310	Given below are two statements: Statement (I): A belt of coastal waters extending utmost 12 nautical miles from the baseline of a coastal state is called territorial sea. Statement (II): A belt of coastal waters extending utmost 24 nautical miles from the outer edge of the territorial sea is called contiguous zone. 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	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
111	3311	Which of the following is launched by Government of India recently for comprehensive development of villages of blocks on northern border to improve livelihood people living in identified border villages of India? 1. Mission Amrit Sarovar 2. Vibrant Villages Programme 3. National Agriculture Market 4. Krishi UDAN Scheme A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
112	3312	The United Nations General Assembly has declared 2022 as the International Year of 1. Artisanal fisheries and Aquaculture 2. Sustainable marine fisheries 3. Mariculture 4. Seafood safety A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
113	3313		4.0	1.00

		Identify the correct sequence of steps in extension teaching (A). Desire (B). Conviction (C). Interest (D). Attention (E). Satisfaction (F). Action Choose the **correct** answer from the options given below: 1. (C), (B), (A), (D), (F), (E). 2. (D), (C), (A), (B), (F), (E). 3. (D), (C), (B), (F), (A), (E). 4. (A), (C), (E), (F), (B), (D). A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
114	3314	Three of the following extension teaching methods belong to the same category. Choose the odd one out. 1. Bulletin 2. Radio talk 3. Exhibition 4. Field trip A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
115	3315		4.0	1.00

Identify 3 R's of credit
(A). Referral

(B). Returns

(C). Reach

(D). Repaying capacity

(E). Risk bearing ability

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116	3316	Indian marine products exports value worth during 2021-22 1. US$ 8.95 billion 2. US$ 7.76 billion 3. US$ 6.67 billion 4. US$ 5.08 billion A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

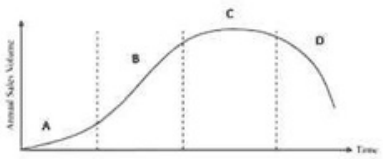
Objective Question

117	3317	The market situation where there is only one buyer in the market is called 1. Monopoly 2. Monopsony 3. Perfect market 4. Monarchy A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

118	3318	Study the product life cycle diagram as given. If A, B, C and D represents different stages of product life cycle, which stage is least expensive stage?  1. Stage A 2. Stage B 3. Stage C 4. Stage D A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

119	3319	The headquarter of the WTO is at 1. Uruguay 2. New York 3. Tokyo 4. Geneva A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

120	3320	Which of the following is regarded as one of the fixed costs in aquaculture? 1. Pond construction 2. Depreciation 3. Electricity 4. Repair and maintenance of equipments	4.0	1.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		