

PREVIEW QUESTION BANK

Module Name : Fisheries Resource Management - 49-ENG
Exam Date : 29-Jun-2024 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	201	Movement of DNA from one bacterium to another through a tubular bridge or pilus: 1. Conjugation 2. Transposition 3. Transfection 4. Transduction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	202	Which of the following is responsible for eliminating toxic oxygen by-products from cells? 1. Mitochondria 2. Golgi complex 3. Peroxisomes 4. Chloroplasts A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	203	A form of multiple parasitism in which a parasite preferentially attacks a host that is already parasitized by another species is known as 1. Cleptoparasitism 2. Ectoparasitoid 3. Obligate parasitism 4. Superparasitism A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
4	204	For mass multiplication of DD-136 nematode, the common host used is 1. Silk moth 2. Fruit sucking moth 3. Codling moth 4. Lesser wax moth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	205	Chlorpyrifos methyl is effective against stored product insects except 1. <i>Rhizopertha dominica</i> 2. <i>Tribolium castaneum</i> 3. <i>Caryedon serratus</i> 4. <i>Oryzaephilus surinamensis</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	206	Which of the following insects often cause inhalational allergies in human following large emergence of adult insects 1. Stick insects 2. May flies 3. Ear wigs 4. Preying mantis A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

7	207	Given below are two statements: Statement (I): Climate is a weather condition related to smaller areas at a given place and at a given time, Statement (II): Weather is a condition of atmosphere at a given place and at a given time In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. - Statement (I) is correct but Statement (II) is incorrect. - Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

8	208	The local name of cyclone in Phillippines is - Hurricane - Cyclone - Baquo - Typhoon A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

9	209		4.0	1.00
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Which one of the following are secondary tillage implements?

- (A). Subsoiler
- (B). Cultivator
- (C). Disc harrow
- (D). Wetland plough

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

10 210

_____ is the most suitable, drought resistant and persistent grass?

- 1. *Alylosia sp.*
- 2. *Cenchrus ciliaris*
- 3. *Stylosanthes hamata*
- 4. *Sorghum bicolor*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

11 211

The rainfed area in India is approximately

- 1. 30 mha
- 2. 40 mha
- 3. 57 mha
- 4. 70 mha

A1 : 1

A2 : 2

4.0 1.00

A3 : 3

A4 : 4

Objective Question

12	212	Which nutrient is often a limiting factor in agricultural production? 1. Nitrogen 2. Carbon 3. Oxygen 4. Hydrogen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

13	213	What is a potential disadvantage of agroforestry systems? 1. Increased soil erosion 2. Decreased carbon sequestration 3. Reduced biodiversity 4. Enhanced susceptibility to pests A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

14	214	Pungency in mustard oil is due to 1. Amino acid 2. Allyl isothiocyanate 3. Erusic acid 4. Oxalic acid A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
15	215	Sesamum belongs to the family 1. Chenopodiaceae 2. Papilionaceae 3. Leguminosae 4. Pedaliaceae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
16	216	Dark period is critical in which type of plant? 1. Short day plant 2. Long day plant 3. Day neutral plant 4. All the options A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
17	217	Which of the following is NOT a significant contributor to greenhouse gas emissions from livestock farming? 1. Carbon dioxide 2. Methane 3. Nitrous oxide 4. Ammonia A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

18	218	Fe deficiency is mostly seen in crops growing on 1. Calcareous or alkaline soils 2. Salt affected soils 3. Acidic soils 4. Neutral soils A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	219	EDV (Essentially Derived Varieties) are those which are derived from: 1. crossing two commercially known varieties 2. hybrid introduced from other countries 3. existing variety through genetic engineering or mutation 4. crossing commercially known variety with its wild relative A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

20	220	What is the role of "companion planting" in agriculture? 1. Enhancing soil fertility through crop rotation 2. Growing different crop species together to deter pests 3. Cultivating plants in hydroponic system 4. Increasing soil compaction through cover cropping A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

21	2201	Which among the following is an exotic carp farmed in India? 1. <i>Labeo calbasu</i> 2. <i>Cirrhinus mrigala</i> 3. <i>Amblypharyngodon mola</i> 4. <i>Ctenopharyngodon idella</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

22

2202

4.0

1.00

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

List-I	List-II
(A). Mariculture	(I). <i>Labeo rohita</i>
(B). Marine fisheries	(II). <i>Tor putitora</i>
(C). Cold-water	(III). <i>Sardinella longiceps</i>
(D). Freshwater	(IV). <i>Trachinotus blochii</i>

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) - (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

23	2203		4.0	1.00
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Which among the following is correct about the marine fish stock status 2022 in India?

1. >90% healthy stocks
2. 70.1% healthy stocks
3. <50% healthy stocks
4. <25% healthy stocks

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

24 2204

Essential fish habitats such as coral reefs are challenged because of

1. Increasing sea water temperature in tropical region
2. Fishing
3. Over-exploitation
4. *Tsunami*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

25 2205

Multi-stage stratified random sampling method is used for estimating

1. Marine Fish Landing
2. Marine Fishing Effort
3. Marine Fish Landing and Effort
4. Marine Fisheries Census

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

26 2206

4.0 1.00

The Trophic Level of top level predatory fish will be between

1. 2.51-3.00
2. > 4.01
3. 2.00-2.50
4. 3.51-4.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

27 2207

The definitive indication of a "spawning" ovary in finfish histology is the presence of

1. Small, clear oocytes
2. Hydrated oocytes
3. Oocytes with vitellogenesis
4. Post-ovulatory follicles

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

28 2208

The von Bertalanffy equation deals with the following in fish

1. Mortality
2. Recruitment
3. Growth
4. Migration

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

29 2209

4.0

1.00

Fishes which spend most of their life in freshwater and migrate to sea to breed are called

1. Anadromous fish
2. Catadromous fish
3. Amphidromous fish
4. Potamodromous fish

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

30 2210

The Merchant Shipping Act

1. 1958
2. 1956
3. 1968
4. 1966

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

31 2211

What is the full form of PMMSY

1. Pradhan Mantri Malsya Sustainable Yojana
2. Pradhan Mantri Marine Sampada Yojana
3. Pradhan Mantri Matsya Samskaran Yojana
4. Pradhan Mantri Matsya Sampada Yojana

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

32 2212

4.0

1.00

Among different components of a trawl gear, which of the following contributes maximum to the total drag?

1. Warp
2. Floats
3. Netting
4. Otterboards

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

33 2213

4.0 1.00

The Ministry of Cooperation under the Government of India was formed in

1. 2021
2. 2019
3. 2018
4. 2020

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

34 2214

4.0 1.00

When women and men have differential access to and control over livelihood capitals in fisheries then

1. Men and women face different challenges in creating and maintaining sustainable livelihoods
2. Men and women face same challenges in creating and maintaining sustainable livelihoods
3. Men and women face no challenges in creating and maintaining sustainable livelihoods
4. There is positive development in society

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35 2215

4.0 1.00

----- is an important property of antifreeze proteins present in certain fish

1. Thermal hysteresis
2. Ice recrystallisation
3. Larger ice crystal formation
4. Facilitate blood coagulation

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

36 2216

----- are the enzymes responsible for the conversion of PUFAs to prostaglandins.

1. Cyclooxygenases
2. Cytochromes
3. Fatty acid desaturases
4. Fatty acid reductases

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

37 2217

The bleeding of fish contributes to one of the following phenomena in fish.

1. Reduces oxidation due to the removal of hemeprotein
2. Facilitates oxidation due to oxygen uptake
3. No impact on tissue lipid oxidation
4. Loss of blood

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

38 2218

4.0 1.00

For small sized fish product individual quick freezing is best done by using

1. Fluidized bed freezer
2. Tunnel freezer
3. Contact plate
4. Air blast freezer

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

39 2219

The process of removing air from food cans is called

1. Exhausting
2. Venting
3. Flanging
4. Seaming

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

40 2220

The concentration of iodine solution required in smoked fish plant for hand and equipment sterilization respectively are

1. 15 and 10 ppm
2. 25 and 15 ppm
3. 15 and 25 ppm
4. 10 and 15 ppm

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

41 2221

4.0

1.00

Stretched shrimp is otherwise known as

1. Nobashi
2. Sushi
3. Barbeque
4. Trepang

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

42	2222		4.0	1.00
A Fried fish cake product is 1. Chikuwa 2. Tempura 3. Hampen 4. Satsumaage A1 : 1 A2 : 2 A3 : 3 A4 : 4				

Objective Question

43	2223		4.0	1.00
Black discoloration of shrimps is prevented by dipping in a solution containing 1. Sodium bicarbonate 2. Sodium metabisulphite 3. Sodium nitrite 4. Sodium tri polyphosphate A1 : 1 A2 : 2 A3 : 3 A4 : 4				

Objective Question

44	2224		4.0	1.00
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		Histamine intoxication results from the consumption of spoiled fish belonging to the group of 1. Scombroid 2. Elasmobranch 3. Cephalopods 4. Shrimps A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
45	2225	Squalene is obtained from 1. Liver of sharks 2. Airbladder of teleost fish 3. Shrimp shell waste 4. Scales of fish A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
46	2226	The major protein complex in the surimi production belongs to the group of 1. Sarcoplasmic proteins 2. Myofibrillar Proteins 3. Stroma Proteins 4. Connective tissues A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
47	2227		4.0	1.00

Name the BIS Standard for water used in food processing industries

1. IS-4251
2. IS-4250
3. IS-4231
4. IS-3451

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

48 2228

Which of the following antibiotic causes aplastic anaemia?

1. Nitrofurantoin
2. Chloramphenicol
3. Tetracycline
4. Quinolone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

49 2229

Which of the following factors determine the mesh size required to enmesh and hold a fish in a gillnet?

1. Body size and shape of target fish
2. Length and height of the net
3. Cruising speed and burst speed of target fish
4. Visibility and depth of water column

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

50 2230

4.0 1.00

Lampara is a

1. Surrounding net with a purse line
2. Surrounding net without a purse line
3. Surrounding net with a bunt
4. Surrounding net without a bunt

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

51 2231

The bilge keel fitted just below the water level in the mid-ship area of the boat

1. reduces pitching of the boat
2. increases rolling of the boat
3. reduces rolling of the boat
4. increases pitching of the boat

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

52 2232

SART or Search and Rescue Transponder, a vital machine on a vessel during distress, operates on a frequency band of

1. 15 GHz frequency band (15.2 to 15.5 GHz)
2. 6GHz frequency band (6.2 to 6.5 GHz)
3. 9GHz frequency band (9.2 to 9.5 GHz)
4. 12GHz frequency band (12.2 to 12.5 GHz)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

53 2233

4.0 1.00

		Which fuel is used for the propulsion of deep sea fishing vessels 1. Petrol 2. Diesel 3. Kerosene 4. Petrol + Kerosene A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
54	2234	What is the purpose of gear box in the engine room of fishing vessels 1. Turning in the sea 2. Increasing and decreasing the speed 3. Keeping the forward, reverse and neutral positions 4. Only for emergency situations A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
55	2235	The area of an irregular polygon is calculated by using ----- 1. Sine rule 2. Trapezoidal rule 3. Triangulation method 4. Pythagoras theorem A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
56	2236		4.0	1.00

In what type of brackishwater fish farm, a feeder-cum-drainage channel is the most important and essential component ?

1. Tide-fed
2. Pump-fed
3. Tide-cum-pump fed
4. Any type

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

57 2237

Which type of refrigerant is commonly used in seafood processing plants?

1. R-134a
2. Ammonia
3. Freon-22
4. Carbon dioxide

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

58 2238

Which factor affects the drying time in dehydrating equipment for fish?

- (A) Ambient temperature
- (B) Fish size & species
- (C) Humidity level

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

A1 : 1

A2 : 2

A3 : 3

4.0 1.00

		A4 : 4		
Objective Question				
59	2239	Boundry between stratosphere and troposphere is called 1. stratopause 2. Mesopause 3. tropopause 4. nacreous A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
60	2240	Which of the following is an example of biotic relationship ? 1. Bacteria and Ammonia production 2. Photosynthesis 3. Symbiosis 4. Respiration by zooplankton A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
61	2241	The largest man made lake of India is- 1. Dal lake 2. Heerakud 3. Indirasagar 4. Husainsagar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
62	2242	BOD is a measure of- 1. Organic pollution 2. Biological pollution 3. Inorganic pollution 4. Physical pollution A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
63	2243	On the basis of their origin, majority of natural freshwater lakes in the world are- 1. Tectonic 2. Volcanic 3. Glacial 4. Dissolution A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	2244	Non biodegradable wastes which can be used again are known as- 1. Non recyclable wastes 2. Recyclable wastes 3. Resynthesized wastes 4. Decomposable waste A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

65

2245

4.0

1.00

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

List-I	List-II
(A). Cumulose material	(I). Lower to higher trophic level
(B). Clay	(II). Peat
(C). Biomagnification	(III). Cation exchanger
(D). Slightly acidic/ alkaline soils	(IV). Colloidal state

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

66	2246	What distinguishes Euryhaline organisms from stenohaline organisms? - Euryhaline organisms can only exist in freshwater ecosystems. - Stenohaline organisms are salt-tolerant and can survive in marine ecosystems - Euryhaline organisms can adapt to a wide range of salinities, while stenohaline organisms can only tolerate narrow ranges. - Stenohaline organisms are freshwater organisms. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

67	2247		4.0	1.00
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What is the primary function of aerenchyma in aquatic plants?

1. To transport oxygen to roots
2. To store excess nutrients
3. To provide structural support
4. To absorb carbon dioxide

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

68 2248

What is the main role of macroinvertebrates in assessing water quality in streams and rivers?

1. Nutrient cycling
2. Oxygen production
3. Pollination
4. Bioindication

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

69 2249

4.0 1.00

Match the following oceanographic analysis techniques with their descriptions:

List I	List II
A. GIS	I) Examination of large-scale ocean features and phenomena.
B. Remote sensing	II) Study of rapid fluctuations in ocean productivity.
C. Synoptic analysis	III) Mapping and monitoring fisheries habitats and resources.
D. Short-term productivity changes	IV) Utilizing satellite imagery for oceanographic research.

1. (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
2. (A) - (II), (B) - (III), (C) - (I), (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			
70	2250	4.0	1.00

Match the following fisheries enhancement strategies with their descriptions:

List I	List II
(A) Artificial upwelling	(I). Creating conditions for vertical layering of water masses.
(B) Ranching	(II). Introducing nutrients to stimulate phytoplankton growth.
(C). Ocean fertilization	(III). Capturing juvenile fish for rearing and release into the wild.
(D). Stratification	(IV). Manipulating ocean currents to bring nutrient-rich water to the surface.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

71	1002501	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Indian mackerel retained its status as the top landed resource in the country during 2023, with a total of 3.43 lakh tonnes, consistent with 2022. Reason (R) : Major marine fish resources in 2023 landings were, Indian mackerel 3.43 lakh tonnes accounted for 9.72% of the national total, Ribbon fishes 2.70 lakh tonnes (7.64%), Oil sardine 2.45 lakh tonnes (6.95%), Cephalopods 2.13 lakh tonnes (6.02%), and Non-penaeid prawns 2.11 lakh tonnes (5.98%). In light of the above statements, choose the <i>correct</i> 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.	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72 1002502

4.0 1.00

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

List-I	List-II
Resource	Characteristics
(A). Unio	(I). Wood borer
(B). Crassostrea	(II). Amphineura
(C). Teredo	(III). Freshwater mussels
(D). Chiton	(IV). Hermaphrodite species

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

73 1002503

4.0 1.00

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

List-I	List-II
Larva	Resource Group
(A). Nauplius	(I). Penaeid prawn
(B). Phyllosoma	(II). Lobster
(C). Megalopa	(III). Mollusc
(D). Trochophore	(IV). Crab

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

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

74	1002504	The estimated total potential of conventional and nov-conventional marine fishery resources of India reported by the working group on potential revalidation-2018 is 1. 7.1 million tonnes 2. 5.3 million tonnes 3. 1.8 million tonnes 4. 3.5 million tonnes	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

75	1002505		4.0	1.00
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- (A). *Clarias gariepinus* is indigenous to India.
- (B). *Clarias gariepinus* is an exotic species India.
- (C). *Clarias gariepinus* is legally farmed in India.
- (D). *Clarias gariepinus* is also known as 'Thai-magur'.

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

76	1002506	A methodology vetted by FAO for fish landing data and effort estimation in India devised and implemented by the Central Marine Fisheries Research Institute 1. Multi-stage stratified random sampling 2. Exploratory survey 3. Acoustic survey 4. Fishing trip logsheet data collection A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1002507	Indian scientists decoded the complete genome of which of the following marine fish species? 1. Indian Oil Sardine (<i>Sardinella longiceps</i>) 2. Indian Mackerel (<i>Rastrelliger kanagurta</i>) 3. Indian Pompano (<i>Trachinotus mookalee</i>) 4. Silver Pompano (<i>Trachinotus blochii</i>) A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

78	1002508	Non-conventional species from marine environment are landed in huge quantity during recent years globally. Such unexplained huge landings of certain species was observed in the year 2023, with 0.48 lakh tonnes of landings similar to its reported landings in 2019. Name the species? 1. Red-toothed trigger fish (<i>Odonus niger</i>) 2. Oceanic Squid (<i>Sthenoteuthis oualaniensis</i>) 3. Ribbon fish (<i>Trichiurus auriga</i>) 4. Catostylid jellyfish (<i>Crambionella orsini</i>) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1002509	Read the statements A, B, C and D carefully : (A). Essential fish habitats such as coral reefs undergoes threat in the form of 'bleaching'. (B). Coral reefs are also improving in it's coverage as in the case of some other essential fish habitats such as mangroves. (C). Indian coral reefs are facing serious challenges due to heat stress during El Nino Years. (D). Northern Indian Ocean reefs suffer serious bleaching due to altered 'Walker circulation' in certain years bringing additional heat. Choose the correct answer from the options given below: 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	4.0	1.00
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Objective Question

80	1002510		4.0	1.00
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Read the statements A, B, C and D carefully :

- (A). Potential Fishing Zone (PFZ) are fish aggregating areas.
- (B). Frontal zones - colour as well as thermal are synonymous to PFZs.
- (C). ESSO-INCOIS is the agency operationalizing PFZs in India
- (D). During trawl-ban period PFZ advisories are not provided

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

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

81	1002511	Read the statements A, B, C and D carefully: (A). India is the third-largest producer of fish in the world. (B). India contributes 8% to the global fish production. (C). In aquaculture production India ranks second. (D). Though India is a leading shrimp producer, more than 90% of farmed shrimp is non-native species. Choose the correct answer from the options given below: 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	4.0	1.00
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Objective Question

82	1002512		4.0	1.00
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		Gynogenesis occurs naturally in some fishes belonging to the family - Poeciliidae - Cyprinodontidae - Cichlidae - Bagridae A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
83	1002513	Which of the following biosphere reserve has sea-cow as the key fauna? - Gulf of Mannar - Gulf of Kachchh - Gulf of Cambay - Persian Gulf A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
84	1002514	Organism attached or clinging to stem and leaves of rooted plants or other surface projecting above water is called as - Periphyton - Benthos - Plankton - Neuston A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
85	1002515		4.0	1.00

		Fishing employs several techniques which are sustainable and unsustainable. One major fishing type is long-line. In long line, hooks are set with 1. Sekiyama 2. Snood wire 3. Branch line 4. Main line A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

86	1002516	Tuna is a major resource contributing to the global fishery resources. Which family does tuna belong to? 1. Family of Carps (Cyprinidae) 2. Family of Salmon (Salmonidae) 3. Family of Sardine (Clupeidae) 4. Family of Mackerel (Scombridae) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

87	1002517	Limnological term for running water environment 1. Lentic 2. Lotic 3. Rotic 4. Oxbotic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

88	1002518		4.0	1.00
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		Fishes in tropical conditions seems to mature 1. Later than temperate counterparts 2. Same as temperate counterparts 3. At a totally different pattern than temperate counterparts 4. Earlier than temperate counterparts A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

89	1002519	Read the following statements A,B,C and D carefully: (A). 91.1% of the 135 marine fish stocks assessed in 2022 in India were deemed healthy (B). 81.1% of the 135 marine fish stocks assessed in 2022 in India were deemed healthy (C). 51.1% of the 135 marine fish stocks assessed in 2022 in India were deemed healthy (D). 41.1% of the 135 marine fish stocks assessed in 2022 in India were deemed healthy Choose the correct answer from the options given below: 1. (A) 2. (B) 3. (C) 4. (D) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

90	1002520	Orange-spotted grouper is 1. <i>Epinephelus coioides</i> 2. <i>Epinephelus tauvina</i> 3. <i>Epinephelus malabaricus</i> 4. <i>Epinephelus bontoides</i> A1 : 1 A2 : 2	4.0	1.00
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A3 : 3

A4 : 4

Objective Question

91	1002521	If larger fish in a sample have increased more in height or weight, than in length, then which of the following is true for b of the length-weight relationship 1. $b=3$ 2. $b<3$ 3. $b>3$ 4. $b=0$ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

92	1002522	Alima is seen in the life cycle of 1. Crab 2. Squilla 3. Shrimp 4. Lobster A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1002523	Caudal fin is formed in which stage of a finfish larvae 1. Flexion stage 2. Preflexion stage 3. Postflexion stage 4. Egg A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
94	1002524	A protogynous fish showing diandry means 1. There are both primary males and secondary males 2. All males are secondary being derived from functional females 3. Functional male fish changes to functional female fish 4. The fish is functionally both male and female at the same time A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
95	1002525	Trophonemata are long villous extensions of the 1. Egg membrane 2. Ovary epithilium 3. Uterine epithilium 4. Placenta A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
96	1002526	In dietary niche breadth analysis using Levins Standardized Niche Breadth Index, a value close to 1 indicates 1. Specialist feeder 2. Generalist feeder 3. Specific feeder 4. Low feeder A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
97	1002527	Hard parts especially Otoliths are used for age estimation in fish due to : 1. Otoliths are subjected to resorption 2. Otoliths do not grow in isolation of the environment 3. Otolith growth is continuous 4. Otolith is skeletal A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
98	1002528	In the Linearized catch curve method to estimate Z, the rightmost points are not used since 1. They are close to L_{∞} 2. They are not under full exploitation 3. They are higher than L_m 4. They are not fully recruited to the fishery A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
99	1002529	Which stock-recruitment model indicates that beyond a certain level of spawning stock, there is no relationship between parent stock and recruitment 1. Beverton and Holt 2. Cushing 3. Ricker 4. Linear A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
100	1002530	In fisheries, MSC stands for 1. Monitoring Systems for Control 2. Marine Stewardship Council 3. Marine Surveillance Council 4. Management System for Catch A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
101	1002531	Among biodiversity indices, the symbol 'd' stands for 1. Margalef's Index 2. Pielou's Evenness Index 3. Shannon Diversity Index 4. Simpson Index A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
102	1002532	In polluted ecosystems, the Abundance/Biomass Comparison (ABC plot) will depict the following : 1. r-selected species are not favoured 2. Abundance curve lower than biomass curve 3. Abundance curve higher than biomass curve 4. K-selected species are favoured A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
103	1002533	When the parent stock is reduced by fishing, to the extent that not enough young fish are produced to ensure that the stock will maintain itself, it leads to 1. Growth overfishing 2. Recruitment overfishing 3. Ecosystem overfishing 4. No overfishing A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
104	1002534	The satellite-based sensor launched in 2002 and currently in use for ocean colour observations is 1. OCM-2 2. VIIRS 3. SeaWiFS 4. AQUA-MODIS A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
105	1002535	Geospatial data representing specific feature of the Earth's surface as attribute is known as 1. Raster 2. Grid 3. Vector 4. Layer A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

1061002536

4.01.00

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

List-I	List-II
(A). Continental shelf are exploited up to	(I). 50 m depth
(B). EEZ area	(II). 0.50 million sq .km
(C). Continental shelf area	(III). 2.02 million sq .km.
(D). Inshore area (< 50 m depth)	(IV). 0.18 million sq .km.

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

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

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

107	1002537	Horizontal and vertical hanging coefficient in a frame net are: 0.5 and 0.5 respectively 0.5 and 0.87 respectively 0.87 and 0.5 respectively 0.87 and 0.87 respectively A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

108	1002538		4.0	1.00
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- (A). BRD is used in trawl nets
- (B). TED is a type of BRD
- (C). Snood wire is a part of long line unit
- (D). BRD is used in Purse seines

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

109 1002539

4.0 1.00

_____ is an useful tool for determination of optimum mesh size for a gear.

1. Gear selectivity
2. Exploitation rate
3. CPUE
4. size of net

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1002540

4.0 1.00

Which of the following remote sensing platform is used for fish stock assessment?

1. IRS p4
2. IRS ID
3. Sea sat
4. OCM

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111	1002541	Given below are two statements: Statement (I): The United Nations High Seas Treaty is the first-ever treaty to protect the world's oceans that lie outside national boundaries Statement (II): It is also known as the 'Paris Agreement for the Ocean.' In light of the above statements, choose the <i>most appropriate</i> answer from the options given below. - Both Statement (I) and Statement (II) are correct. - Both Statement (I) and Statement (II) are incorrect. - Statement (I) is correct but Statement (II) is incorrect. - Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

112	1002542	(A). The square mesh for the codend meshes increases the selectivity of the trawl gear and ensures escapement of juveniles of fish. (B). The square mesh webbing increases juvenile capture (C). The square mesh is more stable than the diamond mesh (D). Square mesh keeps the cod end meshes open during trawling operation Choose the correct answer from the options given below: (A), (B) and (D) only. (A), (B) and (C) only. (A), (B), (C) and (D). (A), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

113	1002543		4.0	1.00
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Gear material most commonly used for making travel net in India is :

1. Polyamide
2. Polyethylene
3. Polyester
4. Polypropylene

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

114	1002544	Statement 1: Cage culture has no potential to provide livelihood to the communities displaced by the constriction of dams Statement II: Cage culture has the potential to provide livelihood to the communities displaced by the constriction of dams 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
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Objective Question

115	1002545	GDI measures gender inequalities in achievement in basic dimensions of human development which are 1. Health, Education and Trade 2. Health, Education and Economic status 3. Evaluation, Education and Economic status 4. Monitoring, Evaluation and Development A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

116	1002546	Statement I: A livelihood will comprise "Capabilities, Assets and Activities" for a means of living Statement II: The three dimensions of vulnerability in fisheries are "Exposure, Sensitivity and Adaptive capacity 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
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Objective Question

117	1002547	Convention on the Elimination of All Forms of Discrimination against Women (CEDAW) was adopted by the United Nations General Assembly in 1. 1969 2. 1979 3. 1989 4. 2000 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

118	1002548	The size at 50% maturity of finfish is estimated using which model? 1. Linear Model 2. Logistic Model 3. Negative Binomial Model 4. Poisson Model A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question				
119	1002549	The Union Government has made it mandatory for payments to be made for MGNREGA beneficiaries through the ABPS. What is ABPS here 1. Aadhar-Based Payment Sanction 2. Average Based Pay System 3. Aadhar-Biometric Payment System 4. Aadhar-Based Payment System A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1002550	Hazards during fishing are 1. Sudden event resulting in huge loss of life and property. 2. chance or probability that a person will be harmed or experience an adverse health effect 3. Source of potential harm or danger 4. Degree to which people and the things they value could be affected A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00