

PREVIEW QUESTION BANK

Module Name : Aquatic Environmental Management - 52-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

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	A Fried fish cake product is 1. Chikuwa 2. Tempura 3. Hampen 4. Satsumaage A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
43	2223	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	4.0	1.00
Objective Question				
44	2224		4.0	1.00

		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

		<i>Lampara</i> 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	Match List-I with List-II <table border="1"> <thead> <tr> <th>List-I</th><th>List-II</th></tr> </thead> <tbody> <tr> <td>(A). Cumulose material</td><td>(I). Lower to higher trophic level</td></tr> <tr> <td>(B). Clay</td><td>(II). Peat</td></tr> <tr> <td>(C). Biomagnification</td><td>(III). Cation exchanger</td></tr> <tr> <td>(D). Slightly acidic/ alkaline soils</td><td>(IV). Colloidal state</td></tr> </tbody> </table> Choose the correct answer from the options given below: (A) - (II), (B) - (I), (C) - (III), (D) - (IV) (A) - (I), (B) - (II), (C) - (IV), (D) - (III) (A) - (II), (B) - (IV), (C) - (I), (D) - (III) (A) - (III), (B) - (IV), (C) - (I), (D) - (II) A1 : 1 A2 : 2 A3 : 3 A4 : 4	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	4.0	1.00
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													

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	1002651	The relationship between organisms in which one species is harmed by the presence of the other but the other species remain unaffected is termed as 1. Predation 2. Commensalism 3. Mutualism 4. Amensalism A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
72	1002652	What is the primary source of sulfur dioxide (SO₂) emission? 1. Agricultural activities 2. Industrial processes 3. Wildfires 4. Release from swamps A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
73	1002653	Which of the following is a potential consequence of eutrophication in aquatic ecosystems? 1. Increased nonvolatile suspended solids 2. Increased volatile suspended solids 3. Enhanced biodiversity 4. Increase in dissolved oxygen levels at dawn A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
74	1002654	Which of the following is not correct about the Environmental Impact Assessment (EIA) 1. It is mandatory for all nuclear power and related project proposals to include EIA for environmental clearance. 2. EIA emphasises the futuristic aspects over a period of time 3. EIA report is submitted after completion of the project 4. EIA is coordinated by the Central Government's Ministry of Environment and Forests. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

75	1002655	The yellowish appearance present during an intense photochemical smog is due to 1. Small liquid droplets in the form of an aerosol 2. Presence of aldehydes 3. Presence of nitrogen dioxide 4. Presence of oxidants like ozone A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

76	1002656	Holiday island and Lothian island are the marine protected areas in 1. West Bengal 2. Odisha 3. Daman and Diu 4. Andaman and Nicobar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

77	1002657	Given below are two statements: Statement (I): A Biodiversity Hotspot must have at least 2500 vascular plants as endemic Statement (II): A Biodiversity Hotspot must have 30% or less of its original natural vegetation In light of the above statements, choose the <i>most appropriate</i> 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	4.0	1.00
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A4 : 4

Objective Question

78	1002658	Alpha diversity refers to 1. Diversity within a particular area, or ecosystem 2. Diversity between ecosystems 3. Overall diversity for different ecosystems within a region 4. Diversity of a particular flora or fauna A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1002659	The term Biodiversity was first coined by 1. E.O. Wilson 2. W. G. Rosen 3. Rachel Carson 4. H. E. Thomson A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1002660	Factor that does not affect community structure is 1. Species richness and species diversity 2. Season and climate 3. Evolutionary process 4. Energy flow A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

81	1002661	Type III Ecolabels are also referred as- 1. Environmental Product Declaration 2. Self Declaration 3. Third Party Entity 4. Classic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

82	1002662	One of the following is an important aspect of Environmental Economics 1. Conservation 2. Mitigation 3. Valuation 4. Declaration A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

83	1002663	Photosynthesis to Respiration Ratio is larger ($P:R > 1$) in 1. Headwaters of a stream 2. Midreaches of a stream 3. Lower reaches of a stream 4. At the origin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question				
84	1002664	The Secretariat of Ramsar Convention is based in- 1. Bonn, Germany 2. Gland ,Switzerland 3. Chicago,USA 4. Aukland, New Zealand A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
85	1002665	The Simpson Diversity Index ranges between 1. 0 to infinity 2. 1 to infinity 3. 0 to 1 4. infinity to 0 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
86	1002666	International day of Biodiversity is celebrated on 1. 22 July 2. 23 June 3. 22 May 4. 23 April A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
87	1002667		4.0	1.00

The Sunderban has been declared as world heritage natural site of biodiversity by

1. IUCN
2. UNESCO
3. WCS
4. WWF

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

88	1002668	Given below are two statements: Statement (I): Reflective type sandy beaches are wide and flat Statement (II): Reflective sandy beaches are fine grained In light of the above statements, choose the <i>most appropriate</i> 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
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Objective Question

89	1002669		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
(A).Father of rivers	(I). Arvari
(B).Smallest river	(II).Indravali
(C). Deepest river	(III). Indus
(D). Newest river	(IV).Brahmaputra

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

90 1002670

4.0 1.00

Given below are two statements:

Statement (I):The two existing types of Carbon credits are i) nature based and ii)technology based

Statement (II): Farmers and land owners can sell Carbon credits

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

91 1002671

4.0 1.00

Among the followings, which statement (s) is/ are wrong with regards to soil profile-

- (i) Soil profile depicts all of its horizon
- (ii) Hard bedrock is denoted as horizon C
- (iii) The horizon E is known as master horizon

- 1. (i)
- 2. (ii)
- 3. (i) and (ii)
- 4. (ii) and (iii)

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92	1002672	Tetrahedron configuration of zeolite is- 1. Sheets 2. Double chains 3. Rings 4. Three dimensional A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

93	1002673	Among the following soil particles, which one has lowest specific area? 1. Large sand particles 2. Large silt particles 3. Small sand particles 4. Small silt particles A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
94	1002674	Depending on chemical nature, the decomposition of which organic matter is rapid?- 1. Lignin 2. Resin 3. Cellulose 4. Starch A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
95	1002675	Soil detoxification is done mainly by- 1. Microorganisms 2. Blue breen algae 3. Bioturbating invertebrates 4. Both options 1 and 2 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
96	1002676	Which of the following is a common method for detecting the presence of toxicants in aquatic organisms? 1. DNA sequencing 2. Hydrobiological examination of water 3. Western blotting 4. Polymerase Chain Reaction (PCR) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
97	1002677	What is the primary route of entry for microplastics into aquatic ecosystems? 1. Atmospheric deposition 2. Direct discharge from factories 3. Runoff from landfills 4. Disposal of plastic waste in rivers and oceans A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
98	1002678	Which of the following is NOT a characteristic of bioaccumulation? 1. Movement of pollutants through the food chain 2. Magnification of pollutant concentrations at higher trophic levels 3. Rapid breakdown of pollutants in the environment 4. Accumulation of pollutants in the tissues of organisms A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
99	1002679	Which of the following is NOT a common effect of heavy metal pollution on aquatic organisms? 1. Reproductive impairment 2. Neurological damage 3. Increased growth rates 4. Behavioural changes A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

100	1002680	Which of the following is NOT a characteristic of microbial communities in aquatic ecosystems? 1. High diversity 2. Low abundance 3. Important role in nutrient cycling 4. Sensitive to environmental changes A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

101	1002681	What is the main mechanism by which microorganisms degrade organic pollutants in aquatic environments? 1. Photosynthesis 2. Oxidation-reduction reactions 3. Enzymatic hydrolysis 4. DNA replication A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

102	1002682	Which of the following is a common symptom of fish exposed to water contaminated with heavy metals? 1. Increased swimming speed 2. Loss of equilibrium 3. Enhanced reproductive success 4. Decreased appetite A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

103	1002683		4.0	1.00
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What is the main role of algae in the process of bioremediation?

1. Oxygen production
2. Absorption of heavy metals
3. Nitrogen fixation
4. Carbon sequestration

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

104 1002684

Which of the following is NOT a factor contributing to the spread of antibiotic-resistant bacteria in aquatic environments?

1. Discharge of untreated sewage
2. Overuse of antibiotics in aquaculture
3. Presence of heavy metals
4. Horizontal gene transfer

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

105 1002685

Which of the following pollutants is commonly associated with acidification of aquatic ecosystems?

1. Carbon dioxide
2. Nitrogen oxides
3. Sulfur dioxide
4. All the above-

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

106 1002686

4.0

1.00

		What is the primary role of biofilms in aquatic environments? 1. Oxygen production 2. Nutrient cycling 3. Pollution prevention 4. Accumulate metals and organic contaminants A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
107	1002687	Which of the following is a common consequence of nutrient pollution in aquatic ecosystems? 1. Increased biodiversity 2. Algal blooms 3. Enhanced fish populations 4. Improved water quality A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
108	1002688	What is the main mechanism by which microplastics affect aquatic organisms? 1. Physical entanglement 2. Hormonal disruption 3. Neurological damage 4. DNA mutation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
109	1002689		4.0	1.00

Which of the following is NOT a common method of assessing the toxicity of nanoparticles in aquatic environments?

1. Microscopy
2. Spectroscopy
3. Bioassays
4. Titration

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

110 1002690

Which of the following pollutants is commonly found in sunscreen and can contribute to coral bleaching?

1. Zinc oxide
2. Titanium oxide
3. Octinoxate
4. Avobenzone

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

111 1002691

Which of the following is a characteristic feature of a mid-ocean ridge

1. Deep-sea trench
2. Abyssal plain
3. Underwater mountain range
4. Coastal continental shelf

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

112 1002692

4.0

1.00

		Which factor is primarily responsible for high productivity of coastal marine ecosystems? 1. High salinity 2. Low nutrient availability 3. Upwelling of nutrient-rich waters 4. Extreme temperature fluctuations A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
113	1002693	What is the typical duration of an ENSO (El Niño-Southern Oscillation) event? 1. Several days 2. Several weeks 3. Several months 4. Several Years A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
114	1002694	What drives the formation of ocean currents? 1. Gravitational pull of the moon 2. Earth's rotation 3. Atmospheric pressure gradients 4. Changes in water density A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
115	1002695		4.0	1.00

How does the Southern Oscillation Index (SOI) measure the strength of ENSO events?

1. By tracking changes in sea surface temperature
2. By monitoring changes in atmospheric pressure
3. By analyzing changes in ocean salinity
4. By measuring variations in wind patterns

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116	1002696	What role does upwelling play in marine ecosystems? 1. It brings warm surface waters to the ocean floor. 2. increases sediment deposition along coastal areas 3. It transports nutrient-rich waters to the surface. 4. It creates stagnant zones with low oxygen levels. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

117	1002697	How can satellite altimetry be used in fisheries management? 1. To monitor sea surface temperature 2. To measure ocean depths and identify underwater features 3. To track the movement of fishing vessels 4. To assess phytoplankton abundance and distribution A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

118	1002698		4.0	1.00
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		Which environmental factor is a primary driver of the Indian Ocean Dipole (IOD) phenomenon? 1. Sea surface temperature 2. Monsoon winds 3. Ocean Salinity 4. Atmospheric Pressure A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
119	1002699	How do artificial reefs contribute to marine biodiversity? 1. By providing habitat for coral reef species 2. By promoting algal blooms and increasing oxygen levels 3. By serving as feeding grounds for marine mammals 4. By reducing competition among fish species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1002700	What role do marine protected areas (MPAs) play in fisheries management? 1. They prohibit all fishing activities to conserve marine biodiversity. 2. They allow for sustainable fishing practices while protecting critical habitats. 3. They serve as research sites for studying oceanographic processes. 4. They regulate ocean pollution to ensure fish health and safety. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00