

PREVIEW QUESTION BANK

Module Name : Aquaculture - 53-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

4.0 1.00

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 *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

8 208

4.0 1.00

The local name of cyclone in Philippines is

1. Hurricane
2. Cyclone
3. Baquio
4. Typhoon

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

9 209

4.0 1.00

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. *Alyosia* 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	2301	Channel catfish is a popular fish species for culture in the country of 1. South Africa 2. USA 3. China 4. India A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	2302	Human chorionic gonadotropin, used for induced breeding of fish, is a 1. Bilirubin 2. Glycoprotein 3. Hemocyanin 4. Cytokinin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
23	2303	Brachionus belongs to the phylum 1. Rotifera 2. Protozoa 3. Arthropoda 4. Copepoda A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
24	2304	Pokkali rice can tolerate salinity up to ppt 1. 6-8 2. 10 3. 12 4. 15 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
25	2305	The controlling factor of pond productivity is..... 1. Alkaline bottom of the pond 2. Colloidal content of the soil 3. Calcium content of the bottom of the pond 4. Cellulose mud of the pond A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
26	2306	Which chemical is used to control obnoxious gas in culture water? 1. Bleaching powder 2. Alum 3. Zeolite 4. Calcium carbonate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

27	2307	Application of Gypsum in a pond corrects the.....of pond water 1. Acidity 2. Alkalinity 3. Salinity 4. Hardness A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
28	2308	The water stability of shrimp feed should be minimum of 1. 30 minutes 2. 1 hour 3. 2 hours 4. 3 hours A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
29	2309	_____ fish are sterile 1. Triploid 2. Tetraploid 3. Haploid 4. Diploid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
30	2310		4.0	1.00

The number of fish seed for transportation in containers can be calculated using the following formula

$$N = (D-2)X_v/RxH$$

Where : D is

1. Dissolved oxygen in ambient water in ppm.
2. Density of fish seed stocked
3. Diameter of container
4. Period of transportation in Days

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

31	2311	Shrimp Broodstock Multiplication Centre (BMC) facility is for developing broodstock 1. From the post-larvae to adult 2. Egg to Larvae 3. Matured male and female 4. Nauplius to post larve A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

32	2312	Broodstock Multiplication Centre for shrimp shall be located in an area where: 1. No fish farmers 2. Shrimp Hatchery/ Aquaculture Activities or Fish Landing Centers (FLCs) do not already exist within a radius of 1000 meters. 3. Salt water easily available 4. Shrimp farmers are in large number A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question				
33	2313	One of the highly indispensable live foods used in the shrimp aquaculture industry 1. Brine shrimp 2. Cyclops 3. Earthworm 4. Silkworm larvae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
34	2314	Freshly caught broodstock lobster should be given a dip treatment in to remove polychaete worms, sponges, and ciliates 1. KMnO₄ 2. Methylene blue malachite green 3. Formalin 4. Common salt A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
35	2315	The inconsistent survival from the later zoea to megalopa stage is the major problem in mud crab hatchery due to 1. WSSV 2. BMC 3. WSD 4. MDS A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
36	2316	In mud crab hatching occurs in days after spawning at temperatures of 26.5-31°C 1. 24 hours 2. 72 hours 3. 7-14 days 4. 12 hours A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
37	2317	Which one of the following is used to make the acidic soil suitable for carp culture? 1. Urea 2. Superphosphate 3. Quick lime 4. Cow dung A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
38	2318	Which one of the following is harmful for the carp spawns? 1. Anisops 2. Brachionus 3. Keratela 4. Ceriodaphnia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
39	2319		4.0	1.00

		Which one of the following fish culture systems produces zero waste? 1. Cage culture 2. Pen culture 3. Race ways 4. Recirculating Aquaculture System A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
40	2320	Which one of the following is the most harmful water quality parameter for fish culture? 1. Ionized ammonia 2. Unionized ammonia 3. Conductivity 4. Turbidity A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
41	2321	eDNA is _____ 1. Environmental DNA 2. Ribosomal DNA 3. Mitochondrial DNA 4. Lysosomal DNA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
42	2322		4.0	1.00

		Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Quarantine protocols are essential in the prevention of spread and introduction of pathogens in aquaculture systems Reason (R) : Regular monitoring of water quality parameters is crucial for maintaining the health of cultured animals In light of the above statements, choose the correct answer from the options given below. - Both (A) and (R) are true and (R) is the correct explanation of (A). - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
43	2323	Malignant tumor observed in liver tissue is called as - Neuroblastoma - Chondrosarcoma - Meningioma - Hepatocarcinoma A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
44	2324	The total hardness level (CaCO_3 equivalent) considered to be a dividing line between soft and hard water 100 ppm 50 ppm 75 ppm 150 ppm A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
45	2325	The improved variety of rohu (Jayanti rohu) is a result of 1. Intraspecific hybridisation 2. Interspecific hybridisation 3. Transgenesis 4. Selective breeding A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
46	2326	The protein requirements for fish are higher by about ----- times compared to mammal 1. 1-2 2. 2-3 3. 3-4 4. 4-5 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
47	2327	Ammonia-N is toxic to commercially cultured fish at concentrations 1. ≥ 1.5 mg N / lit 2. 0.1 mg N / lit 3. 15 μg N / lit 4. 1.5 μg N/ lit A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

48	2328	The diagnostic technique that employs labelled nucleic acid probes for detection of target sequence on fixed tissue specimen is: 1. Immunohistochemistry 2. <i>In situ</i> hybridization 3. PCR 4. RT-PCR A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

49	2329	Preliminary identification of the disease based on gross observations and circumstantial evidences is referred to as: 1. Confirmatory diagnosis 2. Definitive diagnosis 3. Presumptive diagnosis 4. Clinical diagnosis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

50	2330	Noncytochrome oxidase - containing Gram - negative bacteria pathogenic for fish 1. <i>Edwardsiella tarda</i> 2. <i>Yersinia ruckeri</i> 3. <i>Flavobacterium columnaris</i> 4. 1 & 2 A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
51	2331	In microbiology, liquid media is generally called as: 1. Broth 2. Agar 3. Siant 4. 2 & 3 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
52	2332	Which of the following act as phagocytes? (A). Macrophages (B). Dendritic cells (C). Neutrophils (D). Thrombocytes. 1. (A), (B) and (D) only. 2. (A), (B) and (C) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
53	2333	Which of the following has a role in iron metabolism in fish? 1. Tranferrin 2. Interferon 3. Lysozyme 4. Agglutinin A1 : 1	4.0	1.00

		A2 : 2		
		A3 : 3		
		A4 : 4		
Objective Question				
54	2334	The non-viable beneficial microorganisms termed as ghost probiotics are synonymous to 1. Postbiotic 2. Synbiotic 3. Prebiotic 4. Paraprobiotic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
55	2335	Nodavac-R is a recent recombinant vaccine developed by 1. ICAR-CIBA 2. ICAR-CIFE 3. ICAR-CIFA 4. ICAR-CMFRI A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
56	2336	Proteins are 1. Bundles of fatty acids 2. Bundles of amino acids 3. Micro nutrients 4. All statements are true A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		
Objective Question				
57	2337	One calorie is equivalent to 1. 4184 Joules 2. 41.84 Joules 3. 4.184 Joules 4. 418.4 Joules A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
58	2338	Synthetic form of Vitamin K is 1. Menadione 2. Tocopherol 3. Folic acid 4. Cynocobalamin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
59	2339	is Essential Amino Acid 1. Proline 2. Alanine 3. Tryptophan 4. Cystein A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

60	2340	In which of the carp culture systems fishes are cultured mostly under natural feed? 1. Intensive 2. Semi- intensive 3. Extensive 4. Super-intensive A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

61	2341	Which kind of fish have a high carbohydrate requirement? 1. Herbivorous fishes 2. Omnivorous fishes 3. Carnivorous fishes 4. Detritivorous fishes A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

62	2342	In general, fish and crustaceans are incapable of biosynthesis of which of the following vitamin? 1. Vitamin A 2. Vitamin B 3. Vitamin C 4. Vitamin D A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
63	2343	The poor utilization of carbohydrates in carnivorous fishes is mainly due to which of the following reasons? 1. Low amylase 2. High amylase 3. Low lipase 4. Low pepsin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
64	2344	Which is the most common type of feed fed to aquarium fish? 1. Crumble feed 2. Pellet feed 3. Dough feed 4. Flake feed A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
65	2345	Gizzard is a part of 1. Cardiac stomach 2. Pyloric stomach 3. Hindgut 4. Midgut A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question					
66	2346		High PER in fish fed with higher carbohydrate is due to 1. High protein retention 2. High carbohydrate retention 3. High fat deposition 4. Retention of water A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question					
67	2347		Reverse primer for a gene can be a part of the sequence of 1. 5' end of cDNA 2. 5' end of mRNA 3. 3' end of cDNA 4. 3' end of mRNA A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question					

68	2348	Most of the fishes are unable to synthesize polyunsaturated fatty acids of n-3 and n-6 series. Which one of the following fish has the capacity to convert alpha-linolenic acid to docosahexaenoic acid? 1. Hilsa 2. Halibut 3. Rainbow trout 4. Common carp A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

69	2349	Which one of the following vitamins serves as a hydrogen donor in many hydroxylation reaction: 1. Vitamin A 2. Vitamin C 3. Choline 4. Inositol A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

70	2350	The essential amino acid tryptophan deficiency leads to 1. Scoliosis and lordosis 2. Cataracts 3. Excess pigmentation 4. Reduce dopamine secretion A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

71	1002701		4.0	1.00
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		Which state had the highest per capita fish consumption among the inland states in the year 2022-23? 1. Tripura 2. Bihar 3. M.P. 4. Manipur A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
72	1002702	For easy operation and maintenance, the most suitable shape of a fish pond is 1. Hexagonal 2. Square 3. Rectangular 4. Trapezoidal A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
73	1002703	Name the aquatic insect known as back swimmer. 1. Notonecta 2. Cybister 3. Ranatra 4. Riffle beetle A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
74	1002704		4.0	1.00

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

List-I	List-II
(Nutrients)	(Symptoms/Diseases)
(A). Iron	(I). Loss of appetite
(B). Phosphorous	(II). Microcytic homochromic anemia
(C). Magnesium	(III). Thyroid hyperplasia
(D). Iodine	(IV). Lordosis

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

75	1002705	Which fish species of IMC was captive bred first time in India in the year 1957?	4.0	1.00
		1. Rohu		
		2. Catla		
		3. Mrigal		
		4. Magur		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

76	1002706		4.0	1.00
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		A is a section of reservoir water in terms of depth where the temperature drops drastically across a small change in water depth. 1. Tropholytic zone 2. Photic zone 3. Euphotic zone 4. Trophogenic zone		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

77	1002707	Artemia belongs to which order? 1. Ostracoda 2. Anostraca 3. Copepod 4. Rotifer	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

78	1002708	Which institute developed the induced breeding technology for groupers? 1. CIFE 2. CIBA 3. CMFRI 4. CIFRI	4.0	1.00
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

79	1002709		4.0	1.00
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A mutation, in which extra base pairs are inserted into a new place in the DNA, is called

1. Substitution
2. Deletion
3. Frameshift
4. Insertion

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

80 1002710

The vertical distance between the top of the dyke and the surface water of the pond is known as

1. Height of settlement
2. Wave of height
3. Free board
4. Depth of water

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

81 1002711

The Coastal Aquaculture authority (CAA) is located in

1. Kochi
2. Hyderabad
3. Mumbai
4. Chennai

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0

1.00

Objective Question

82 1002712

4.0

1.00

		Drum filter is a 1. Mechanical filter 2. Biofilter 3. Chemical filter 4. Sediment filter A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

83	1002713	Light-weight biofilter media is normally used in..... 1. Sand filter 2. Rotating biological contactor 3. Trickling biofilter 4. Submerged biofilter A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

84	1002714	Given below are two statements: Statement (I): CAA make regulations for the construction and operation of aquaculture farms in coastal areas Statement (II): Take action for discontinuation of coastal aquaculture farms that are not in accordance with guidelines 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	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
85	1002715	Which pump is having a impeller ? 1. Reciprocating pump 2. Centrifugal pump 3. Submersible pump 4. Centripetal pump A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
86	1002716	Dumpy level is commonly used leveling instrument to locate the points in same _____ plane 1. Horizontal 2. Vertical 3. Parallel 4. Rectangular A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
87	1002717	Which authority is responsible for implementing and enforcing Coastal Regulation Zone (CRZ) regulations in India? 1. Ministry of Urban Development 2. Ministry of Shipping 3. Ministry of Environment, Forest and Climate Change 4. Ministry of Tourism A1 : 1 A2 : 2 A3 : 3	4.0	1.00

A4 : 4

Objective Question

88	1002718	Most economical suitable shape of a pond is 1. Square 2. Rectangular 3. Hexagonal 4. Pentagonal A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

89	1002719	In raceways, the ideal bottom slope for construction of ponds is 1. 0.5-1% 2. 1-2% 3. 2-3% 4. 3-4% A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

90	1002720	Crop duration of <i>P vannamei</i> is days 1. 60 2. 90 3. 120 4. 150 A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
91	1002721	Given below are two statements, one is labeled as Assertion A, and the other is labeled as Reason R Assertion A: Anemone fish is categorized as a protandrous hermaphrodite Reason R: Anemone fish is born male first and then changes its sex to female during its life span. In light of the above statements, choose the correct answer from the options given below - Both (A) and (R) are true and (R) is the correct explanation of (A) - Both (A) and (R) are true but (R) is NOT the correct explanation of (A). (A) is true but (R) is false. - Both (A) and (R) are false. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
92	1002722	The two major environmental factors that affect maturation and spawning in fish are - Temperature and rain - Rain and photoperiod - Alkalinity and photoperiod - Temperature and photoperiod A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
93	1002723	In externally fertilized marine water fish species, spermatozoa are activated when they come in contact with - Hypertonic solution - Isotonic solution - Hypotonic solution - Hyper-osmotic solution A1 : 1 A2 : 2	4.0	1.00

A3 : 3

A4 : 4

Objective Question

94	1002724	Golden Mahseer male and female mature at 1 year and 2 years, respectively 2 years and 4 years, respectively 3 years and 5 years, respectively 5 years and 7 years, respectively A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

95	1002725	The term "kype" refers to 1. Trout 2. Common carp 3. Prawn 4. None A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1002726	Vitellogenin is synthesized in 1. Kidney 2. Spleen 3. Liver 4. Gonads A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		

Objective Question

97	1002727	The colour of the tag used on certified seed bags is 1. Blue 2. Purple 3. White 4. Golden Yellow A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

98	1002728	Luteinizing hormone is also known as 1. GtH-I 2. GtH-II 3. MIS 4. FSH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

99	1002729	The thelycum is a 1. Specialized genital modification 2. Specialized breathing organ 3. Modification of Fin 4. Modification of sensory organ A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
100	1002730	The breeding season of Magur is 1. June to August 2. March to June 3. September to November 4. Throughout the year A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
101	1002731	Which of the following substances decreases the activity of dopamine? 1. GnRH 2. MIS 3. MPF 4. Pimozide A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
102	1002732	Gonadotropin-releasing hormone is responsible for the 1. Release of follicle-stimulating hormone 2. Release of luteinizing hormone 3. Inhibition of FSH and LH release 4. 1&2 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
103	1002733	Copulatory organs in teleost 1. Clasper 2. Gonopodium 3. Thelycum 4. Spat A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
104	1002734	GIFT tilapia is developed through 1. Genetic manipulation 2. Selective breeding 3. Cryopreservation 4. Mutation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
105	1002735	The Linpe method, which involves a combination of 1. LH-RH-a (GnRH-a) and a dopamine antagonist 2. GnRH and dopamine antagonist 3. LH-RH-a (GnRH-a) and a dopamine agonist 4. FSH and LH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
106	1002736	Synthetic analogues of Gonadotropin-releasing hormone (GnRH) is 1. Ovaprim 2. Ovotide 3. Tibolon 4. 1& 2 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
107	1002737	What is the term for the development of a fish from an egg to a miniature adult? 1. Metamorphosis 2. Fertilization 3. Incubation 4. Gestation A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
108	1002738	The acrosome is a component of which of the following? 1. Embryo 2. Egg 3. Sperm 4. Chromosome A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

109	1002739	<i>Acrossocheilus hexagonolepis</i> is 1. Ovoviviparous 2. Oviparous 3. Livebearer 4. Viviparous A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

110	1002740	Trochopore is the larvae of which of the following? 1. Crab 2. Eels 3. Mollusc 4. Prawn A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

111	1002741	The chitosan in Recirculating Aquaculture System is used for: 1. Oxygenation of water 2. Removal of particles 3. Increase growth of microorganisms 4. Removal of algae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

112	1002742		4.0	1.00
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		What is the effective method of ozonation of used water in the Recirculating Aquaculture System? 1. Perforated plate 2. Differential gradient 3. Packed bed 4. Venturi diffuser A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
113	1002743	In Hydroponic System, Hydraulic loading rate (HLR) has been calculated as 1. Flow rate/ Surface area of the Hydroponic system 2. Flow rate X hydraulic retention time 3. Surface area of the Hydroponic system X Flow rate 4. Surface area of the Hydroponic system/Flow rate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
114	1002744	Which one of the following fish is most suitable for paddy-cum-fish farming? 1. Catla 2. Mrigal 3. Tilapia 4. Seabass A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
115	1002745		4.0	1.00

		<i>Pseudomonas</i> spp. are functioning in filter bed of the Recirculating System at: 1. High ammonia and oxygen levels 2. Low oxygen level 3. High pH 4. High ammonia and low pH A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
116	1002746	Mechanical spillway of a pond 1. Gives supports to the embankment 2. Allows excess water to drain 3. Serves as an inlet of water 4. Helps in the free movement on the embankment A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
117	1002747	Which one of the abiotic factors plays significant role in the nitrification process? 1. Oxygen 2. Turbidity 3. Conductivity 4. Phosphorous A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
118	1002748		4.0	1.00

		In paddy-cum-fish farming, synchronus culture means: 1. Culture of both paddy and fish in the hilly terrain 2. Culture of fish first along with paddy and then only fish after paddy harvesting 3. Culture of both paddy and fish simultaneously 4. Culture of fish after the harvesting of paddy A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
119	1002749	Biofouling is associated with which one of the following culture system? 1. Recirculating Aquaculture System 2. Cage Culture 3. Raceways 4. Aquaponics System A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1002750	Which one of the following limitation is associated with raceway aquaculture? 1. Reduced oxygen 2. High phosphorous 3. Low pH 4. High carbon dioxide A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00