

PREVIEW QUESTION BANK

Module Name : Aquatic Animal Health Management - 54-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 Phillippines 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 toppt 1. 6-8 2. 10 3. 12 4. 15 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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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
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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
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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 into 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 indays after spawning at temperatures of 26.5-31°C 24 hours 72 hours 7-14 days 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? - Urea - Superphosphate - Quick lime - 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? - Anisops - Brachionus - Keratela - 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.

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

43	2323	Malignant tumor observed in liver tissue is called as 1. Neuroblastoma 2. Chondrosarcoma 3. Meninginoma 4. Hepatocarcinoma A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

44	2324	The total hardness level (CaCO_3 equivalent) considered to be a dividing line between soft and hard water 1. 100 ppm 2. 50 ppm 3. 75 ppm 4. 150 ppm A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		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. Slant 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
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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
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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
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		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
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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
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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	1002751		4.0	1.00
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Following is a type of cellular adaptation

1. Normoxia
2. Hypoxia
3. Normocapnia
4. Hyperplasia

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

72	1002752	Given below are two statements: Statement (I): Exudate is high in protein concentration Statement (II): Transudate is less in protein concentration Choose the <i>most appropriate</i> answer from the options given below. 1. Both Statement (I) and Statement (II) are correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

73	1002753	_____ is/are one of the target genes for hypoxia inducible factor-1 (A) Erythropoietin gene (B) High Mobility Group Box gene (C) Interleukin-1 Beta (D) Vascular Endothelial Growth Factor gene 1. (A), (B) and (D) only. 2. (A) and (D) only. 3. (A), (B), (C) and (D). 4. (B), (C) and (D) only. A1 : 1	4.0	1.00
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A2 : 2

A3 : 3

A4 : 4

Objective Question

74

1002754

4.0

1.00

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

List-I	List-II
(A). Liver	(I). Rhabdomyoma
(B). Skin	(II). Branchial fibroma
(C). Gills	(III). Hepatocarcinoma
(D). Straiated muscle	(IV). Papilloma

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

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

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

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

75	1002755	_____ hormones are secreted from chromaffin tissue in response to stress in fishes - Catecholamines - Gonodotropin releasing hormone - Luteinizing hormone - Kisseptin hormone A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
76	1002756	Which of the following can mimic infection with Infectious myonecrosis virus (IMNV)? 1. Penaeus monodon nudivirus 2. Penaeus monodon densovirus 3. Penaeus vannamei singly enveloped nucleopolyhedrovirus 4. Penaeus vannamei nodavirus (PvNV) A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
77	1002757	Histopathological changes in the liver of ----- fish are characterized by hepatic syncytia and thus the name "syncytial hepatitis 1. TiLV-infected 2. VER-infected 3. CEV-infected 4. RSIV-infected A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
78	1002758	What is the similarity among Spring viraemia of carp virus (SVCV), Viral haemorrhagic septicaemia virus (VHSV) and Infectious hematopoietic necrosis virus (IHNV)? 1. All belong to iridoviridae 2. All belong to Rhabdoviridae 3. All belong to Totiviridae 4. All belong to Orthomyxoviridae A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
79	1002759	The cell line(s) used for Infectious hematopoietic necrosis virus (IHNV) is/are 1. BF-2 2. RTG-2 3. BF-2 and RTG-2 4. EPC or FHM A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
80	1002760	An intracellular rickettsial bacterium, which causes withering syndrome in abalones 1. Hepatobacter penaei 2. Listonella anguillarum 3. Xenohalotis californiensis 4. Piscirickettsia salmonis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
81	1002761	An anaerobic bacterium implicated as fish pathogen 1. Clostridium nigrificans 2. Eubacterium tarentellae 3. Carnobacterium piscicola 4. Vagococcus salmoninarum A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

82	1002762	The WOAH-listed pathogenic agent <i>Gyrodactylus salaris</i> is a cold-water-adapted ----- 1. Oviparous ectoparasite 2. Viviparous endoparasite 3. Viviparous ectoparasite 4. Ovoviviparous ectoparasite A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

83	1002763	The blood-borne parasite that occurs in marine and freshwater fish 1. Trypanosoma spp. 2. Amyloodinium ocellatum 3. Dactylogyrus spp. 4. Entobdella hippoglossi A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

84	1002764	Myxosporidean parasites of fish have an obligatory ----- host for the completion of their life cycle 1. Oligochaete 2. Copepod 3. Dinoflagellate 4. Rotifer A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

85	1002765	Any degenerative disorder resulting from improper or faulty nutrition is 1. Hypertrophy 2. Atrophy 3. Hypotrophy 4. Dystrophy A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

86	1002766	The international standards of this organization are the preferred choice of sanitary measures for risk management 1. WHO 2. WOAHA 3. FAO 4. USPHS A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

87	1002767	The inclusion of soybean meal (SBM) in the diet of fish induces an inflammatory response in the-----, known as SBM-induced enteritis 1. Proximal intestinal mucosa 2. Middle intestinal mucosa 3. Distal intestinal mucosa 4. Oesophagus A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

88	1002768		4.0	1.00
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		A malignant tumour of epithelial origin 1. Carcinomas 2. Papillomas 3. Fibromas 4. Hybridomas A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
89	1002769	The infective stage of myxosporidean parasites in fish is 1. Arthrospore 2. Zycospore 3. Basidiospore 4. Actinospore A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
90	1002770	An operation or procedure where an aquaculture establishment is emptied of aquatic animals susceptible to a disease of concern or capable of transferring the pathogenic agent, and of the carrying water 1. Fallowing 2. Biosecurity 3. Quarantine 4. Best management practices A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
91	1002771		4.0	1.00

Significant atrophy of hepatopancreas in shrimp is a prominent feature of:

1. IHHNV
2. WSD
3. IMNV
4. AHPND

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

92	1002772		4.0	1.00
Which among the following bacteria are not acid fast in nature?				
1. Nocardia 2. Pasteurella 3. Mycobacteria 4. Both Nocardia & Mycobacteria				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

93	1002773		4.0	1.00
Which of the the mobile App developed by NSPAAD for disease reporting by farmers?				
1. ReportFishDisease 2. mJhinga 3. FishDiseaseInfo 4. DiseaseAPP				
A1 : 1				
A2 : 2				
A3 : 3				
A4 : 4				

Objective Question

94	1002774		4.0	1.00
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Demonstration of the mucoid envelope of fresh spore of Myxozoan is best possible by:

1. Lugol's Iodine
2. India Ink
3. Hematoxyline
4. Bouins' fluid

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

95	1002775	Hemolytic anemia in fish may be associated with: 1. Hemolysin-producing bacteria 2. Nutritional deficiencies 3. Hemoparasites 4. All the three A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1002776	Which of the following is used to quantitatively measure stress in fish? 1. Fe 2. Glucose 3. Hemoglobin 4. Protein A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

97	1002777		4.0	1.00
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		Multiplex PCR can simultaneously amplify: 1. More than one segment of a target DNA 2. More than one DNA template 3. More than one virus 4. All the three A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
98	1002778	Cycle threshold (Ct) value is: 1. Directly proportional to the initial copy number of target 2. Inversely proportional to the initial copy number of target 3. Not related to the initial copy number of target 4. Depends on the background signals A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
99	1002779	Strand displacement activity of DNA polymerase is the characteristic principle of which diagnostic technique 1. PCR 2. LAMP 3. IFAT 4. ISH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
100	1002780		4.0	1.00

Complement fixation test can be used to determine:

1. the presence and amount of virus antigen
2. the presence and viability of virus antigen
3. the amount and viability of virus antigen
4. viability of virus antigen

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

101	1002781	Hybridoma are grown in which of the selective medium? 1. HAT medium 2. MX medium 3. Fultons medium 4. Any cell culture medium A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

102	1002782	Which of the following is a non-radioactive label used in in situ hybridisation? 1. FAM 2. TAMRA 3. Haematoxylin 4. Digoxigenin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

103	1002783		4.0	1.00
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General clearing agents used in histology

1. Xylene
2. Isopropanol
3. Ethanol
4. Methanol

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

104	1002784	What is the purpose of adding trypsin to cell culture in the experiment? 1. For disaggregation of cell clumps 2. For cell growth 3. For cell multiplication 4. For cell arrest A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

105	1002785	Which of the following are slow growing viruses on cell culture: 1. ISAV, Birna virus, some Toga virus 2. TiLV, TiPV and IPNV 3. ISAV, TiLV and TiPV 4. Birna virus, IPNV and TiLV A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

106	1002786		4.0	1.00
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Pus is a collection of

1. Neutrophils
2. Macrophages
3. Eosinophils
4. T-cells

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

107	1002787	Which type of immunity is typically induced by fish vaccines?	4.0	1.00
		1. Innate immunity 2. Passive immunity 3. Humoral immunity 4. Maternal immunity		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

108	1002788	Which of the following is NOT a cardinal sign of inflammation?	4.0	1.00
		1. Redness 2. Itching 3. Heat 4. Swelling		
		A1 : 1		
		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

109	1002789		4.0	1.00
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		What is the role of neutrophils in inflammation? 1. Tissue repair 2. Release histamine 3. Phagocytosis 4. Antibody production A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
110	1002790	Which of the following is not an antimicrobial peptide? 1. Defensin 2. Hepcidin 3. Cathelicidin 4. Interlukin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
111	1002791	The first commercialized DNA vaccine was developed against 1. IPNV 2. SVCV 3. IHNV 4. ISKNV A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
112	1002792		4.0	1.00

Levamisole is a ----- type of immunostimulant

1. Bacterial derivative
2. Synthetic chemical
3. Polysaccharide
4. Animal extract

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

113	1002793	CIFAX is used for the treatment of 1. Dactylogyrosis 2. Columnaris 3. EUS 4. Argulosis A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

114	1002794	 is a set of standard criteria for deciding whether an individual study unit of interest has a particular disease or other outcomes of interest. 1. Scenario setting 2. Case definition 3. Defining populations 4. Risk factor A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

115	1002795		4.0	1.00
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Which of the following statements is true for SPF stocks

1. less susceptible to infections
2. Free of all OIE listed pathogens
3. Free from all diseases
4. Need high biosecurity culture facility

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

116 1002796

Which point in the replication cycle appears most easily blocked by antivirals?

1. Virus penetration
2. Virus RNA and DNA replication
3. Virus absorption
4. Exit of virus from the cell

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

117 1002797

Dicer is an endonuclease that cleaves _____ during the process of RNA-interference.

1. Single-stranded DNA
2. Double-stranded DNA
3. Single-stranded RNA
4. Double-stranded RNA

A1 : 1

A2 : 2

A3 : 3

A4 : 4

4.0 1.00

Objective Question

118 1002798

4.0 1.00

		Primary site for drug metabolism 1. Intestine 2. Stomach 3. Liver 4. Kidney A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
119	1002799	What is the name of the process where structurally different compounds interact with the enzyme and prevent the metabolism of the drug? 1. Altered physiology 2. Non-competitive inhibition 3. Competitive inhibition 4. Repression A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1002800	Which form of a drug has greater solubility? 1. Anhydrous 2. Hydrate 3. Crystallised 4. Monohydrate A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00