

PREVIEW QUESTION BANK

Module Name : Fish Nutrition and Feed Technology-ENG
Exam Date : 09-Jul-2023 Batch : 14:30-16:30

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	2001	Which one of the following is not one of the features of parliamentary form of government? 1. Majority party rule 2. Collective Responsibility 3. Integrated and Independent Judiciary 4. Dissolution of the lower house A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
2	2002	Which of the following term implies that 'India is a neither a dependency nor a dominion of any other nation'? 1. Socialist 2. Sovereign 3. Secular 4. Democratic A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
3	2003	Which of the following form the maximum water composition on the earth's surface? 1. Oceans 2. Ice caps 3. Glaciers 4. Lakes A1 : 1 A2 : 2	4.0	1.00

		A3 : 3		
		A4 : 4		
Objective Question				
4	2004	Which one of the following does not fall under the category of 'biomes? 1. Forest 2. Sky 3. Desert 4. Grassland A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
5	2005	IUCN publishes information about which of the following species as Red List of threatened species? 1. Endangered Species 2. Vulnerable Species 3. Extinct Species 4. Rare Species A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
6	2006	Who was the first Indian to win an individual medal in Olympics? 1. Milkha Singh 2. Karnam Malleshwari 3. P. T. Usha 4. K. D. Jadhav A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
7	2007	Who among the following reformers founded "Arya Samaj"? 1. Raja Ram Mohan Roy 2. Swami Dayananda Saraswati 3. Atmaram Pandurang 4. Ishwarchandra Vidyasagar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
8	2008	What does "Triratna" mean in Buddhism? 1. Tripitaka 2. Buddha, Dhamma (dharma), Sangha 3. Satya, Ahimsa, Karuna 4. Sheel, Samadhi, Sangha A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
9	2009	Who started the Indian Reforms Association? 1. Narayan Guru 2. Swami Vivekananda 3. Krishna swami Aiyar 4. Keshav Chandra Sen A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

10	2010	Consider the following statements (A). UN General Assembly has declared 2023 as the international year of millets (B). Odisha govt. ropes in FICCI to promote millets globally (C). Odisha Millets Mission is a flagship programme of the Odisha government to revive millets in farms and on plates Choose the correct answer from the options given below: 1. (A) and (B) only. 2. (B) and (C) only. 3. (A) and (C) only. 4. (A), (B) and (C). A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

11	2011	Phomopsis blight occurs in which of the following crops? 1. Brinjal 2. Bajra 3. Sugarcane 4. Potato A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

12	2012	Endemic pests can be described as? 1. Pest occurs in a few specific area. 2. Pest occurs in same area, year after year. 3. Pest occurs frequently in current season in abundance. 4. Pest occurs in severe form. A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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A4 : 4

Objective Question

13	2013	Which country is the largest producer of raw silk? 1. Japan 2. India 3. China 4. South Korea A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

14	2014	Transfer of Ownership is the example of which utility..... 1. Time utility 2. Place utility 3. Possession utility 4. Form utility A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

15	2015	What happens to the total number of chromosomes during mitotic cell division? 1. gets doubled 2. gets halved 3. remains the same 4. divides into four A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

16	2016	What is the minimum forest cover to be maintained as per the National Forest Policy, 1988? 1. One-half 2. One-third 3. One-fourth 4. Two-third A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

17	2017	Who among the following is known as the "Father of Agronomy"? 1. Stephen Hales 2. Gregor Johann Mendel 3. Peter Decresenzi 4. D N Walia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

18	2018	Which of the following plant hormones helps in shoot elongation? 1. Auxin 2. Gibberellic acid 3. Absciscic acid 4. Cytokinin A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

19	2019		4.0	1.00
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		Select from the following the chemical property of soil..... 1. Colour 2. pH 3. Texture 4. Structure A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
20	2020	The process of separating quality grains from chaff is called as..... 1. Winnowing 2. Threshing 3. Harvesting 4. Tilling A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
21	131001	The area between the euphotic and aphotic zone is called as 1. Synphotic zone 2. Aphotic zone 3. Photic zone 4. Dysphotic zone A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
22	131002		4.0	1.00

Which of the following fish shows parental care?

1. Climbing perch
2. Pabdah catfish
3. Murrels
4. Grouper

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

23	131003	In Goa, the coastal low-lying field is known as 1. Khazan land 2. Khars land 3. Pokalli field 4. Bheries A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

24	131004	Which one of the following fish has the highest fecundity? 1. Murrel 2. Grouper 3. Rohu 4. Mahseer A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

25	131005		4.0	1.00
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		<i>Osteobrama belangeri</i> is the state fish of 1. Himachal Pradesh 2. Manipur 3. Arunachal Pradesh 4. Meghalaya A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
26	131006	<i>Barbonymus gonionotus</i> attains maturity in 1. Third year 2. Fourth year 3. First year 4. Second year A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
27	131007	Total fish seed produced in India during 2020-21 was 1. 521856 lakh fry 2. 540690 lakh fry 3. 481974 lakh fry 4. 603581 lakh fry A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
28	131008		4.0	1.00

		Ammonia diffuses from water to the atmosphere especially when the pH is 1. 6-7 2. <5.5 3. >8 4. 7-8 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
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Objective Question

29	131009	The water depth at which the rate of photosynthesis for an individual plant equals the rate of respiration by that plant is called as, 1. Transparency depth 2. Equilibrium depth 3. Secchi disc depth 4. Compensation depth A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

30	131010	State fish of Telangana is 1. Striped murrel 2. Giant murrel 3. Spotted murrel 4. Malabar murrel A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

31	131011		4.0	1.00
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To make 100 ml of 1 N solution, how much Na_2CO_3 will be required?

1. 10.6 g
2. 5.03 g
3. 5.30 g
4. 50.3 g

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

32	I31012	Which of the following carotenoids have the highest vitamin A activity? 1. Gamma carotene 2. Omega carotene 3. β-Carotene 4. α-Carotene A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

33	I31013	The major antinutritional factor present in soybean meal which may affect the growth of fish is 1. Trypsin inhibitor 2. Tannin 3. Oxalate 4. Phytic acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

34	I31014		4.0	1.00
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Artemia cysts contain an embryo whose development is arrested at

1. 32-Celled stage
2. Blastula stage
3. Gastrula stage
4. M₂ state

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

35	I31015	The most commonly present immunoglobulins in fishes 1. IgG 2. IgM 3. IgW 4. IgH A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

36	I31016	<i>Notonecta</i> is commonly known as 1. Water scorpion 2. Water stick insect 3. Backswimmer 4. Water boatman A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

37	I31017		4.0	1.00
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The Scientific name of humpback mahseer is

1. *Tor malabaricus*
2. *Tor mosal*
3. *Tor macrolepis*
4. *Hypselobarbus mussullah*

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

38	131018	Nitrogen is considered as a major limiting nutrient in 1. Brackishwater 2. Freshwater 3. Sea water 4. Estuary A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

39	131019	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Fish culture in RAS is more economical. Reason (R) :RAS is suitable for fish culture in Peri-urban areas. In light of the above statements, choose the <i>most appropriate</i> answer from the options given below . 1. Both (A) and (R) are correct and (R) is the correct explanation of (A). 2. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). 3. (A) is correct but (R) is not correct. 4. (A) is not correct but (R) is correct. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question				
40	131020	The family of WSSV is 1. Nimaviridae 2. Iridoviridae 3. Adenoviridae 4. Herpesviridae A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
41	131021	Which pH range is designated as "Acid death point" in aquaculture? 1. 5.5-6.0 2. 5.0-5.5 3. 4.5-5.0 4. 4.0-4.5 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
42	131022	The target organ of cadmium toxicity 1. Brain 2. Liver 3. Kidney 4. Gills A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
43	131023		4.0	1.00

		Which of the following is a natural antioxidant? 1. Retinol 2. Pantothenic acid 3. Ergocalciferol 4. Tocopherol A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
44	131024	Selective culture medium used for isolation of <i>Aeromonas hydrophila</i> is 1. TSA 2. Cytophaga agar 3. Simmon citrate agar 4. Rimlar-shot agar A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
45	131025	The intermediate host of nematodes 1. Molluscs 2. Fish 3. Arthropods 4. Birds A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
46	131026		4.0	1.00

		A measurement of 10 ppm concentration is equivalent to 1. 10 g/mL 2. 10 mg/L 3. 10 g/L 4. 10 µg/L A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
47	I31027	Father of Marine Microbiology 1. Albert J. Kluyver 2. Claude ZoBell 3. Selman A. Waksman 4. Richard Y. Morita A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
48	I31028	Quorum sensing is related to 1. Bacteria-bacteriophage communication 2. Bacteria-bacteria communication 3. Bacteria-fungus communication 4. Bacteria-algae communication A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
49	I31029		4.0	1.00

Inhibition of acetylcholinesterase (AChE) is the mode of toxicity of which pesticide?

1. Organophosphates
2. Rotenone
3. Organochlorines
4. Pyrethrins

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

50	131030	The changes in cell morphology caused by infecting virus are called 1. Necrosis 2. Infection 3. Cytopathic effect 4. Neutralization effect A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

51	131031	In the following, which is not a prophylaxis measure in aquaculture? 1. Vaccine 2. Biocides 3. Probiotic 4. Immunostimulant A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

52	131032		4.0	1.00
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		Haematocrit value is the ratio of 1. RBC to plasma 2. Platelets to plasma 3. Total Blood Cells to plasma 4. WBC to plasma A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
53	I31033	Which parasite is commonly known as fish louse? 1. <i>Argulus</i> 2. <i>Lernaea</i> 3. <i>Calanus</i> 4. <i>Hirudinea</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
54	I31034	Tilapia Lake virus (TiLV) belongs to 1. Orthomyxovirus 2. Paramyxovirus 3. Rhabdovirus 4. Iridovirus A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
55	I31035		4.0	1.00

The effective method for inactivating viruses is

1. Heat at 42 °C for 1-2 hours
2. Heat at 56 °C for 1-2 hours
3. Exposed to 0.5% solutions of Sodium hydroxide
4. Exposed to 1% solutions of Sodium hydroxide

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

56	131036	Which of the following group of fish are primarily cultured in Japan, Europe and North America, and are largely marine fishes ? 1. Herbivores 2. Carnivores 3. Omnivores 4. Plankton feeders A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

57131037

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

List-I	List-II
Histidine requirement (% dietary protein)	Species
(A). 2.25	(I). Common carp
(B).2.10	(II). Rohu
(C). 1.7	(III). Prawn
(D). 0.7	(IV). Tilapia

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

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

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

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

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

4.01.00

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

58 131038

4.0 1.00

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

List-I	List-II
Common fatty acids	No. of carbon atoms/double bonds
(A). Linolenic acid	(I). 20:4
(B). Arachidonic acid	(II). 20:5
(C). Eicosapentaenoic acid	(III). 18:3
(D). Oleic acid	(IV). 18:1

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

59 131039

4.0 1.00

Which among the following amino acid is required in least quantity (as % dietary protein) for in the diet of Indian major carps?

1. Tryptophan
2. Arginine
3. Leucine
4. Lysine

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

60	I31040	Which one of the following organisms is the best for nutritional enrichment ? 1. Moina 2. Ostracod 3. Daphnia 4. Artemia A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

61	I31041	Degradation of asparagine and aspartic acid to oxaloacetate takes place following series of 1. Citric acid cycle 2. Reaminations 3. Deaminations 4. Carbohic processes A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

62	I31042	Among the following, who has worked extensively on brood stock nutrition of red sea bream ? 1. Kanazawa 2. T Watanabe 3. John Halver 4. C B Cowy A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

63	I31043		4.0	1.00
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Demand feeders are commonly not used in the culture of which of the following ?

1. Catla
2. Trout
3. Channel catfish
4. Shrimp

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

64	131044	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In the manufacture of extruded feeds, high temperature, high pressure and high moisture are used. Reason (R) : In the manufacture of extruded feeds, high temperature, high pressure and high moisture are used, so that hard pellets without any airpockets inside are formed. In light of the above statements, choose the <i>correct</i> answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

65	131045	Given below are two statements: Statement (I): The book 'Fish nutrition in aquaculture' is written by De Silva and R Suhasinghe Statement (II): The book 'Fish nutrition in aquaculture' is written by De Silva and Andersen 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 correct. 2. Both Statement (I) and Statement (II) are incorrect. 3. Statement (I) is correct but Statement (II) is incorrect. 4. Statement (I) is incorrect but Statement (II) is correct. A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		

Objective Question

66	131046	Apparent digestibility coefficient (%) value is relatively higher when the following ingredient is the main source of protein 1. Fish meal 2. Slaughter house waste 3. Solvent extracted soybean oil cake 4. Potato starch A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

67	131047	As per FAO (2022), which of the following is ranked first in world aquaculture production? 1. Common carp 2. Grass carp 3. Nile tilapia 4. Channel catfish A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

68	131048	Which of the following statement is TRUE? 1. Fish can synthesise n-3 but not n-6 PUFAs 2. Fish can synthesise n-6 but not n-3 PUFAs 3. Fish can synthesise both n-3 and n-6 PUFAs 4. Fish cannot synthesise n-3 and n-6 PUFAs A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

69	131049	CIFAMA, a fish feed developed by ICAR-CIFA, exclusively for 1. Magur 2. <i>Macrobrachium</i> 3. Milk fish 4. Mahseer A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

70	131050	Which of the following proteolytic enzyme hydrolyses the peptide bonds between arginine and lysine? 1. Pepsin 2. Chymotrypsin 3. Trypsin 4. Carboxypeptidase A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

71	1002801	Given below are two statements: Statement (I): Calcium is important for variety of physiological process including metabolism, nerve and muscle functions. Statement (II): Calcium is also required for osmoregulation. 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 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	4.0	1.00
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		A4 : 4		
Objective Question				
72	1002802	Phosphorous is a constituent of many important molecules including 1. NAD 2. NADH 3. ATP 4. Blood A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
73	1002803	Before harvesting of nauplii, Artemia cysts are hatched for a duration of 1. 16 hours 2. 36 hours 3. 12 hours 4. 24 hours A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
74	1002804	When demand feeders are used for fish feeding which of the following is not used? 1. Fish movement 2. Demand of the fish 3. Feed tray 4. Timer A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

75	1002805	Given below are two statements: Statement (I): Microencapsulated diets are mainly used in larval stages of shrimps. Statement (II): Microencapsulated diets are mainly used in larval stages of carps. 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

76	1002806	Given below are two statements: Statement (I): Full form of NADP is Nicaodinamide adenine dinucleotide phosphate. Statement (II): Full form of NAG is N-acetyl-D-Glucosamine. 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

77	1002807	The best fish meal available in the world is - Mackerel meal - Sardine meal - Peruvian anchovy meal - Herring meal A1 : 1	4.0	1.00
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		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

78	1002808	Corneal vascularization, cloudy lens, hemorrhagic eyes are the deficiency signs of 1. Vitamin D 2. Riboflavin 3. Calcium 4. Vitamin C A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

79	1002809	Clubbed gills is the nutritional disorder of which of the following ? 1. Vitamin A 2. Phosphorous 3. Phylloquinone 4. Pantothenic acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

80	1002810	Given below are two statements: Statement (I): Acetylcholine is an antagonist to thiamin and pyrithiamin. Statement (II): Oxythiamin and normal butylthiamin are specific antimetabolites. 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 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.	4.0	1.00
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A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

81	1002811	The chemical structure a $C_6H_5O_2N$ is of which of the following compound ? 1. Thiamine 2. Riboflavin 3. Niacin 4. Ascorbic acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

821002812

4.01.00

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

List-I	List-II
Vitamins	Requirements by warm water fish per kg diet
(A). A	(I). 60 mg
(B). D	(II). 6000 IU
(C). E	(III). 12 mg
(D). K	(IV). 1000 IU

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

A1 : 1

A2 : 2

A3 : 3

		A4 : 4		
Objective Question				
83	1002813	What is the dietary requirement (mg/kg diet) of marine shrimp for Nicotinic acid ? 1. 50 2. 500 3. 1000 4. 150 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
84	1002814	Which one of the following is a branched chain amino acid ? 1. Valine 2. Arginine 3. Glycine 4. Alanine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
85	1002815	The dietary requirements (% dietary protein) of histidine for fish is in the range of 1. 2.5 to 3.6 2. 4.1 to 5.6 3. 1.3 to 2.1 4. 0.9 to 1.2 A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

86	1002816	Given below are two statements: Statement (I): Nitrogenous waste excreted by the fish in the form of NH_3 is 83 %. Statement (II): Nitrogenous waste excreted by the fish in the form of NH_3 is 63 %. 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

87	1002817	Vitamin B_{12} is also known as - Niacin - Cyanocobalamin - Thiamine - Pantothenic acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

88	1002818	The usual percent of carbon in proteins is 30 % 40 % 85 % 50 % A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question				
89	1002819	Given below are two statements: Statement (I): Genomics is defined as the approach describing the mapping, sequencing, and analysis of all genes present in the genome of a given species. Statement (II): Nutrigenetics is defined as the approach describing the mapping, sequencing, and analysis of all genes present in the genome of a given species. 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

Objective Question				
90	1002820	Scoliosis in fish is the deficiency sign of 1. Vitamin A 2. Vitamin C 3. Vitamin D 4. Vitamin B₆ A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question				
91	1002821	Calcium requirement in fishes is primarily correlated with intake of which of the following ? 1. Iron 2. Magnesium 3. Vitamin C 4. Phosphorus A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
92	1002822	Haemorrhagic kidney disease is symptom of deficiency of which of the following ? 1. Choline 2. Ascorbic acid 3. Riboflavin 4. Zinc A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
93	1002823	The extruded fish pellets have a high level of water stability due to the following factor 1. Protein agglutination 2. Starch coagulation 3. Starch gelatinization 4. Carbohydrate compaction A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
94	1002824	Bentonite in fish feeds are usually used as 1. Antioxidant 2. Attractant 3. Antibiotic 4. Binder A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

95	1002825	Ring test is used to test the digestibility of which of the following ? 1. Fish oil 2. Fish meal 3. Bacterial contamination 4. Fish flesh A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

96	1002826	Carotenoids are usually considered as 1. Nutritive 2. Adjuvant 3. Antibiotic 4. Non nutritive A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

97	1002827	Given below are two statements: Statement (I): The HUFAs which are vital as cell membrane constituents are susceptible to oxygen radicals in fish. Statement (II): The HUFAs which are vital as cell membrane constituents are susceptible to organic radicals. 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 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	4.0	1.00
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		A4 : 4		
Objective Question				
98	1002828	Which of the following is considered suitable as an initial feed for fish larvae soon after yolk sac absorption ? 1. Cyclops 2. Cladocerans 3. Rotifers 4. Ostracods A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
99	1002829	Which one is an example for wood eating catfish ? 1. <i>Silurus sp</i> 2. Tilapia 3. <i>Gambusia sp</i> 4. <i>Panaque sp</i> A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
100	1002830	Contamination of fish meals is a concern for the feed industry, which of the following is the most important contaminant ? 1. Polyphenols 2. Polypropylene 3. Polychlorinated biphenyls 4. Polysaccharides A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00

Objective Question

101	1002831	Given below are two statements: Statement (I): Purine catabolism is the main source of urea in fish Statement (II): Pyrimidine catabolism is the main source of urea in fish 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

102	1002832	The organs that are usual sites of digestion in fish ? - Intestinal bulb - Gall blader - Pancreas - Liver A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

103	1002833	Secretion of enzymes from Acinar cells are found in which organ of fish ? - Liver - Pancreas - Gall bladder - Intestinal bulb A1 : 1 A2 : 2 A3 : 3	4.0	1.00
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		A4 : 4		
Objective Question				
104	1002834	The increased unsaturation index in fish diet must be balanced by an increased content of which of the following ? 1. Antioxidant 2. Antibiotic 3. Bentonite 4. Saturated fatty acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
105	1002835	DP/DE ratio is a balance between which of the following ? 1. Phosphorus: Energy 2. Polysaccharides: Energy 3. Propylene : Eenergy 4. Protein: Energy A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
106	1002836	The term Minimum Information About Microarray Experiments (MIAME) is associated with 1. Proteomics 2. Transcriptomics 3. Nutrigenomics 4. Metabolomics A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				

107	1002837	The genes responsible for the production of the β-galactosidase were switched on by the presence of ? 1. Galactose 2. Lactose 3. Maltose 4. Sucrose A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

108	1002838	Which one is used as vitamin K supplement in fish ? 1. Phylloquinone 2. Nicotinic acid 3. Menadione sodium bisulphate 4. Pantothenic acid A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

109	1002839	Single cell protein used in fish feed usually lacks the following amino acid ? 1. Methionine 2. Lysine 3. Tryptophan 4. Arginine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

110	1002840		4.0	1.00
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Match **List-I** with **List-II**

List-I	List-II
Feed ingredients	Used as a source of
(A). Groundnut cake	(I). Binder
(B). Tapioca floor	(II). Protein
(C). Ethoxyquin	(III). Carbohydrate
(D). Rice bran	(IV). Antioxidant

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

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

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

111 1002841

4.0 1.00

Drug discovery for a nutritional disorder is primarily a part of

1. Metabolomics
2. Transcriptomics
3. Genetics
4. Proteomics

A1 : 1

A2 : 2

A3 : 3

A4 : 4

Objective Question

112 1002842

4.0 1.00

At a very high water salinity (250 ppt), Artemia

1. Can not survive
2. Grow slowly
3. Grow fast
4. Lay dormant embryos

A1 : 1

		A2 : 2		
		A3 : 3		
		A4 : 4		

Objective Question

113	1002843	A substance that is a food or part of a food that provides medical or health benefits, including preventing or treating disease, is called 1. Antibiotic 2. Nutraceutical 3. Pharmacogenomics 4. Nano medicine A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

114	1002844	Anti nutritional factor which does not belong to the group glycosides ? 1. Tannins 2. Cyanogens 3. Estrogens 4. Saponins A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
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Objective Question

115	1002845	Excess of calcium suppress the absorption of which of the following, in the fish intestine ? 1. Magnesium 2. Phosphorus 3. Sodium 4. Vitamin C A1 : 1 A2 : 2	4.0	1.00
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		A3 : 3		
		A4 : 4		
Objective Question				
116	1002846	Dark coloration in fish results from the deficiency of which of the following ? 1. Niacin 2. Pantothenic acid 3. Folic acid 4. Calcium A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
117	1002847	Hyper vitaminosis A in fishes causes the symptom of 1. Blindness 2. Hemorrhage 3. Anemia 4. Enlargement of the liver A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
118	1002848	The anti-nutritional factor present in ipil-ipil is 1. Cyanogen 2. Mimosine 3. Gossypol 4. Saponin A1 : 1 A2 : 2 A3 : 3	4.0	1.00

		A4 : 4		
Objective Question				
119	1002849	Pellet mills use steam to moisten and heat the feed mixture to approximately to temperature of 1. 250 to 300 °F 2. 185 to 210 °F 3. 160 to 185 °F 4. 100 to 150 °F A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
120	1002850	Microbinding, microcoating and microencapsulation procedures will produce larval diets with a size range of 1. 500 to 600 microns 2. 700 to 800 microns 3. 800 to 1000 microns 4. 25 to 400 microns A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00