

National Testing Agency

Question Paper Name :	Fish Nutrition and Feed Technology 23rd Sep 2020 Shift 2
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Fish Nutrition and Feed Technology

Group Number :	1
Group Id :	71087058
Group Maximum Duration :	0
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Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A General Knowledge

Section Id :	710870172
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20

Number of Questions to be attempted :	20
Section Marks :	80
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870172
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108706901 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following crops is a commercial crop in Punjab and Haryana but is a subsistence crop in Orissa?

1. Tea
2. Cotton
3. Rubber
4. Rice

Options :

- 71087027601. 1
- 71087027602. 2
- 71087027603. 3
- 71087027604. 4

Question Number : 2 Question Id : 7108706902 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following are the two most important wheat-growing zones of the country?

- A. Ganga-Satluj plains in the north-west
- B. Deltaic regions
- C. Black soil region of the Deccan
- D. Plains of north-east

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

- 1. Only A and B
- 2. Only B and C
- 3. Only C and D
- 4. Only A and C

Options :

- 71087027605. 1
- 71087027606. 2
- 71087027607. 3
- 71087027608. 4

Question Number : 3 Question Id : 7108706903 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Indian agriculture is typically characterized as

- 1. Land surplus, labour scarce economy
- 2. Land surplus, labour surplus economy
- 3. Land scarce, labour surplus economy
- 4. Land scarce, labour scarce economy

Options :

- 71087027609. 1

71087027610. 2

71087027611. 3

71087027612. 4

Question Number : 4 Question Id : 7108706904 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries is the main rival of India in tea export?

1. China
2. Japan
3. Germany
4. Sri Lanka

Options :

71087027613. 1

71087027614. 2

71087027615. 3

71087027616. 4

Question Number : 5 Question Id : 7108706905 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement A: MSP is declared by the government every year to provide incentives to the farmers for raising the production of crops.

Statement B: Buffer stock is created to distribute food grains in the deficit areas and among the poorer strata of the society at the lower price than the market price.

In light of the above statements, choose the **most appropriate** answer from the options given below

1. Both Statement A and Statement B are correct
2. Both Statement A and Statement B are incorrect
3. Statement A is correct but Statement B is incorrect
4. Statement A is incorrect but Statement B is correct

Options :

- 71087027617. 1
- 71087027618. 2
- 71087027619. 3
- 71087027620. 4

Question Number : 6 Question Id : 7108706906 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following is a global association of nations of the world to help cooperation in international law, security, economic development and social equity?

1. United Nations Organization
2. International Monetary Fund
3. World Bank
4. World Health Organization

Options :

- 71087027621. 1
- 71087027622. 2
- 71087027623. 3
- 71087027624. 4

Question Number : 7 Question Id : 7108706907 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Under the Ganga Action Plan Phase II, pollution abatement works are being taken up in how many towns?

- 1. 57
- 2. 65
- 3. 52
- 4. 69

Options :

- 71087027625. 1
- 71087027626. 2
- 71087027627. 3
- 71087027628. 4

Question Number : 8 Question Id : 7108706908 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following statements is **incorrect**?

- 1. The highest number of pigs in the world are found in India
- 2. Utter Pradesh provides largest amount of pork
- 3. Assam has the largest number of pork producing pigs
- 4. Pork constitutes about 7.6% of the total meat produced in India

Options :

71087027629. 1

71087027630. 2

71087027631. 3

71087027632. 4

Question Number : 9 Question Id : 7108706909 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which type of N-fertilizer is suitable for water-logged soils?

1. Zinc Phosphate
2. Ammonium Sulphate
3. Calcium
4. Potassium Nitrate

Options :

71087027633. 1

71087027634. 2

71087027635. 3

71087027636. 4

Question Number : 10 Question Id : 7108706910 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The famous Bailadila range of hills in the Bastar district of Chhattisgarh is famous for its

1. Bauxite deposits
2. Manganese deposits
3. Copper deposits
4. High-grade haematite deposits

Options :

71087027637. 1

71087027638. 2

71087027639. 3

71087027640. 4

Question Number : 11 Question Id : 7108706911 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

A farmer wishes to start a 100 sq. m rectangular vegetable garden. Since he has only 30m barbed wire, he fences three sides of the garden letting his house compound wall act as the fourth side fencing. What is the dimension of the garden?

1. 15 m x 6.67m
2. 20 m x 5 m
3. 30 m x 3.33 m
4. 40 m x 2.5 m

Options :

71087027641. 1

71087027642. 2

71087027643. 3

71087027644. 4

Question Number : 12 Question Id : 7108706912 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In which one of the following industries, the consumption of natural rubber is the largest?

1. Auto tyres and tubes
2. Footwear
3. Dipped goods
4. Latex foam

Options :

71087027645. 1

71087027646. 2

71087027647. 3

71087027648. 4

Question Number : 13 Question Id : 7108706913 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following countries was the partner country of 34th Surajkund International Crafts Fair held in Haryana?

1. China
2. Nepal
3. Bhutan
4. Uzbekistan

Options :

71087027649. 1

71087027650. 2

71087027651. 3

71087027652. 4

Question Number : 14 Question Id : 7108706914 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Nobel laureate Abhijit Vinayak Banerjee was conferred the honorary Doctor of Letters (D. Litt.) by which University?

1. University of Delhi
2. University of Kolkata
3. University of Mumbai
4. University of Hyderabad

Options :

- 71087027653. 1
- 71087027654. 2
- 71087027655. 3
- 71087027656. 4

Question Number : 15 Question Id : 7108706915 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Where is the headquarters of European Union?

- 1. Geneva, Switzerland
- 2. Washington D.C., USA
- 3. New York, US
- 4. Brussels, Belgium

Options :

- 71087027657. 1
- 71087027658. 2
- 71087027659. 3
- 71087027660. 4

Question Number : 16 Question Id : 7108706916 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which of the following would be deficient if one finds high somatic cell count in the cow's milk?

- 1. Butterfat
- 2. Whey protein
- 3. Casein
- 4. Trace minerals

Options :

- 71087027661. 1
- 71087027662. 2
- 71087027663. 3
- 71087027664. 4

Question Number : 17 Question Id : 7108706917 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Who was the first administrator-statesman to attempt planning as a means for economic development?

- 1. C. Rajagopalachari
- 2. V. T. Krishnamachari
- 3. M. Viswesvarayya
- 4. Sir C. P. Ramaswami Aiyar

Options :

- 71087027665. 1
- 71087027666. 2
- 71087027667. 3
- 71087027668. 4

Question Number : 18 Question Id : 7108706918 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Amazon rainforest span over nine countries. In August 2019, in which country did a deadly fire broke out in the Amazon forest?

- 1. Brazil
- 2. Venezuela
- 3. Colombia
- 4. Argentina

Options :

- 71087027669. 1
- 71087027670. 2
- 71087027671. 3
- 71087027672. 4

Question Number : 19 Question Id : 7108706919 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Economic liberalization in India started with

- 1. Sustainable changes in industrial licensing policy
- 2. The convertibility of the Indian Rupee
- 3. Significant reduction of tax rates
- 4. Changes in procedural formalities for FDI

Options :

- 71087027673. 1
- 71087027674. 2
- 71087027675. 3
- 71087027676. 4

Question Number : 20 Question Id : 7108706920 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The term 'Delimitation' which was in news recently is associated with which process?

- 1. Fixing the limit of Income tax
- 2. Fixing limits of Affordable housing
- 3. Fixing limits of Territorial constituencies
- 4. Fixing limits of Chairpersons salary

Options :

- 71087027677. 1

71087027678. 2

71087027679. 3

71087027680. 4

Part B Core Fishery Science-II

Section Id :	710870173
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870173
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 7108706921 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In recent years, the most popular hatchery used in the production of carp seed is

1. Jar hatchery
2. Circular hatchery
3. Bundhs
4. Earthen pit

Options :

71087027681. 1

71087027682. 2

71087027683. 3

71087027684. 4

Question Number : 22 Question Id : 7108706922 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Identify the correct statement(s) among the following

- A. Carrying capacity of the pond can be enhanced by fertilization.
- B. Carrying capacity of the pond can be increased by supplementary feeding.
- C. Carrying capacity of the pond is not related to fertilization.
- D. Carrying capacity of the pond can be increased by using different species.

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

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

Options :

71087027685. 1

71087027686. 2

71087027687. 3

71087027688. 4

Question Number : 23 Question Id : 7108706923 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Rope culture is more popularly used in the farming of

1. Oysters
2. Mussels
3. Clams
4. Holothurians

Options :

- 71087027689. 1
- 71087027690. 2
- 71087027691. 3
- 71087027692. 4

Question Number : 24 Question Id : 7108706924 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Among the following species, which one grows relatively to a bigger size

1. *Scylla serrata*
2. *Scylla sanguinolentus*
3. *Portunus pelagicus*
4. *Scylla tranquebarica*

Options :

- 71087027693. 1
- 71087027694. 2
- 71087027695. 3
- 71087027696. 4

Question Number : 25 Question Id : 7108706925 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the correct statements from the following

- A. In the manufacture of extruded aquafeeds, high moisture is required.
- B. In the manufacture of extruded aquafeeds, high temperature is required.
- C. High pressure is required in the manufacture of extruded aquafeeds.
- D. Low moisture and low pressure is used in the manufacture of aquafeeds.

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

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

Options :

- 71087027697. 1
- 71087027698. 2
- 71087027699. 3
- 71087027700. 4

Question Number : 26 Question Id : 7108706926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The following combination of species has given the highest fish production in polyculture

- 1. Catla, Rohu, Mrigal, Bighead, Common Carp
- 2. Catla, Rohu, Mrigal, Common Carp, Grass Carp, Silver Carp
- 3. Rohu, Catla, Common Carp, Silver Carp, Tilapia
- 4. Catla, Rohu, Mrigal, Grass Carp, Mud Carp

Options :

- 71087027701. 1

71087027702. 2

71087027703. 3

71087027704. 4

Question Number : 27 Question Id : 7108706927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

For semi-intensive farming of Indian major carps, an ideal protein level in the supplementary feeding is

1. 30-35%
2. 15-20%
3. 35-40%
4. 25-28%

Options :

71087027705. 1

71087027706. 2

71087027707. 3

71087027708. 4

Question Number : 28 Question Id : 7108706928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Highest production of fish can be obtained per unit area in which one of the following?

1. Pens
2. Cages
3. Ponds
4. Tanks

Options :

71087027709. 1

71087027710. 2

71087027711. 3

71087027712. 4

Question Number : 29 Question Id : 7108706929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following species is successfully cultured in cages and demonstrated along the coasts of India?

1. Tilapia
2. Salmon
3. Seabass
4. Sea bream

Options :

71087027713. 1

71087027714. 2

71087027715. 3

71087027716. 4

Question Number : 30 Question Id : 7108706930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following fishes reproduces through parthenogenesis?

1. *Gambusia affinis*
2. *Carassius auratus*
3. *Glossogobius giuris*
4. *Poecilia formosa*

Options :

71087027717. 1

71087027718. 2

71087027719. 3

71087027720. 4

Question Number : 31 Question Id : 7108706931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Which one of the following fish varieties is a product of selective breeding programme?

1. Jayanthi magur
2. Jayanthi mrigal
3. Jayanthi rohu
4. Jayanthi pangasius

Options :

- 71087027721. 1
- 71087027722. 2
- 71087027723. 3
- 71087027724. 4

Question Number : 32 Question Id : 7108706932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

GIFT Tilapia is a product of the erstwhile ICLARM (present World Fish Center) through which one of the following programs?

1. Hybridization
2. Hormonal manipulation
3. Selective Breeding
4. Triploid production

Options :

- 71087027725. 1
- 71087027726. 2
- 71087027727. 3
- 71087027728. 4

Question Number : 33 Question Id : 7108706933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following fishes is known for long migrations?

1. Indian major carps and Chinese carps
2. Eels and Salmon
3. Cobia and Snappers
4. Turbots and Seabreams

Options :

71087027729. 1

71087027730. 2

71087027731. 3

71087027732. 4

Question Number : 34 Question Id : 7108706934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The common larval stage seen in the marine bivalve molluscs is

1. Glochidium
2. Zoea
3. Megalopa
4. Trochophore

Options :

71087027733. 1

71087027734. 2

71087027735. 3

71087027736. 4

Question Number : 35 Question Id : 7108706935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

The common name 'Climbing Perch' is used for the species

1. *Clarias batrachus*
2. *Heteropneustes fossilis*
3. *Channa punctatus*
4. *Anabas testudineus*

Options :

71087027737. 1
71087027738. 2
71087027739. 3
71087027740. 4

Question Number : 36 Question Id : 7108706936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 4 Wrong Marks : 1

Mahua oil cake used for eradication of unwanted fishes. What is the toxic ingredient present in the mahua oil cake?

1. Rotenone
2. Saponin
3. Toluene
4. Aflatoxin

Options :

71087027741. 1
71087027742. 2
71087027743. 3
71087027744. 4

Question Number : 37 Question Id : 7108706937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Marine pearls are produced in captivity by using which one of the following species?

1. *Crassostrea madrasensis*
2. *Pinctada fucata*
3. *Crassostrea cucullata*
4. *Villorita cyprinoides*

Options :

- 71087027745. 1
- 71087027746. 2
- 71087027747. 3
- 71087027748. 4

Question Number : 38 Question Id : 7108706938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Gold fish eggs are

1. Adhesive
2. Sinking
3. Free floating
4. Opaque

Options :

- 71087027749. 1
- 71087027750. 2
- 71087027751. 3
- 71087027752. 4

Question Number : 39 Question Id : 7108706939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The veliger larval stage is seen in the group

1. Crabs
2. Lobsters
3. Oysters
4. Holothurians

Options :

- 71087027753. 1
- 71087027754. 2
- 71087027755. 3
- 71087027756. 4

Question Number : 40 Question Id : 7108706940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Culture-based fisheries are more applicable to

1. Ponds
2. Small tanks
3. Reservoirs
4. RAS

Options :

- 71087027757. 1
- 71087027758. 2
- 71087027759. 3
- 71087027760. 4

Question Number : 41 Question Id : 7108706941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The study of dietary signatures through the patterns of gene expression, protein expression and metabolites production is known as

1. Metabolismics
2. Nutrigenomics
3. Proteomics
4. Epigenomics

Options :

- 71087027761. 1
- 71087027762. 2
- 71087027763. 3
- 71087027764. 4

Question Number : 42 Question Id : 7108706942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

As per latest FAO data, how many people are engaged in Aquaculture activity in the world?

1. 20.5 million
2. 10.5 million
3. 39.0 million
4. 59.5 million

Options :

- 71087027765. 1
- 71087027766. 2
- 71087027767. 3
- 71087027768. 4

Question Number : 43 Question Id : 7108706943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following feeding strategies is less economical in the intensified fish production system?

1. Feed restriction followed by realimentation
2. Alternate feeding of low and high protein diet
3. Continuous feeding of high protein diet
4. Continuous feeding of low protein diet

Options :

- 71087027769. 1
- 71087027770. 2
- 71087027771. 3
- 71087027772. 4

Question Number : 44 Question Id : 7108706944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Function of hepatopancreas of shrimp is

1. Bile secretion
2. Digestive enzyme secretion
3. Digestion of protein
4. Secretion of digestive enzymes, digestion and absorption of nutrients

Options :

- 71087027773. 1
- 71087027774. 2
- 71087027775. 3
- 71087027776. 4

Question Number : 45 Question Id : 7108706945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pyloric caeca of fish is a part of which digestive organ?

1. Pancreas
2. Liver
3. Stomach
4. Intestine

Options :

- 71087027777. 1
- 71087027778. 2
- 71087027779. 3
- 71087027780. 4

Question Number : 46 Question Id : 7108706946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Graphic solution is one of the important least-cost feed formulation method

Reason R: Feed formulation using least cost formulation method reduces the feed cost

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

Options :

- 71087027781. 1
- 71087027782. 2
- 71087027783. 3

71087027784. 4

Question Number : 47 Question Id : 7108706947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Shrimp feeds are manufactured by an extrusion process

Reason R: Extruded pellets have more water stability

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

Options :

71087027785. 1

71087027786. 2

71087027787. 3

71087027788. 4

Question Number : 48 Question Id : 7108706948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: High moisture content in stored feed influences the growth of fungus

Reason R: Aflatoxin B-1 in aquafeed reduces the fish growth and production

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

Options :

71087027789. 1

71087027790. 2

71087027791. 3

71087027792. 4

Question Number : 49 Question Id : 7108706949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other one labelled as **Reason R**

Assertion A: Less than 25°C and 65% Relative Humidity are the optimum storage conditions for ingredients of aquafeed

Reason R: In Indian conditions, aquafeed should not be stored for more than 2 months

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

Options :

71087027793. 1

71087027794. 2

71087027795. 3

71087027796. 4

Question Number : 50 Question Id : 7108706950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Linoleic and linolenic acids are the dietary essential fatty acids for freshwater fishes

Reason R: All marine fishes can efficiently synthesize arachidonic acid from linoleic acid and eicosapentaenoic acid, and docosahexaenoic acid from linolenic acid

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

Options :

- 71087027797. 1
- 71087027798. 2
- 71087027799. 3
- 71087027800. 4

Question Number : 51 Question Id : 7108706951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In fish, oxygenation of blood is done by the process of

1. Osmoregulation
2. Diffusion
3. Redox potential
4. Osmosis

Options :

- 71087027801. 1
- 71087027802. 2

71087027803. 3

71087027804. 4

Question Number : 52 Question Id : 7108706952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Saturation of both oxygen and nitrogen in water may cause

1. Gas embolism
2. Hypoxia
3. MetHb formation
4. Anoxia

Options :

71087027805. 1

71087027806. 2

71087027807. 3

71087027808. 4

Question Number : 53 Question Id : 7108706953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following species is NOT used in aquatic toxicology tests?

1. *Microcystis*
2. *Chlorella*
3. *Skeletonema*
4. *Navicula*

Options :

71087027809. 1

71087027810. 2

71087027811. 3

71087027812. 4

Question Number : 54 Question Id : 7108706954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The unionized ammonia will decrease by how many times with 1 unit decrease in water pH?

1. 2
2. 5
3. 7
4. 10

Options :

71087027813. 1

71087027814. 2

71087027815. 3

71087027816. 4

Question Number : 55 Question Id : 7108706955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The causal relationship between a microbe and a specific disease was established by

1. Louis Pasteur
2. Edward Jenner
3. Robert Koch
4. Alexander Fleming

Options :

71087027817. 1

71087027818. 2

71087027819. 3

71087027820. 4

Question Number : 56 Question Id : 7108706956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Increase in concentration of a chemical substance along the trophic level of the food chain is known as

1. Biostimulation
2. Bioconcentration
3. Bioaccumulation
4. Biomagnification

Options :

71087027821. 1

71087027822. 2

71087027823. 3

71087027824. 4

Question Number : 57 Question Id : 7108706957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In fish, toxicity of oxidized fish oil leads to

1. Fatty liver
2. Atrophied liver
3. Inflamed pancreas
4. Glycogen-type vacuolation

Options :

71087027825. 1

71087027826. 2

71087027827. 3

71087027828. 4

Question Number : 58 Question Id : 7108706958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The environmental factor(s) involved in the onset of Columnaris disease in tropical fish

1. Crowding
2. Handling
3. Low temperature
4. All of these

Options :

- 71087027829. 1
- 71087027830. 2
- 71087027831. 3
- 71087027832. 4

Question Number : 59 Question Id : 7108706959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

While transporting fish for disease diagnosis, a good thumb rule is to have about 1 litre water for how many cms of fish?

1. 1
2. 2
3. 3
4. 5

Options :

- 71087027833. 1
- 71087027834. 2
- 71087027835. 3
- 71087027836. 4

Question Number : 60 Question Id : 7108706960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The melting point of paraffin wax used in histology is

1. 50-54 °C
2. 54-58 °C
3. 60-64 °C
4. 65-70 °C

Options :

71087027837. 1
71087027838. 2
71087027839. 3
71087027840. 4

Question Number : 61 Question Id : 7108706961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a major component of Bouin's fluid?

1. Acetic acid
2. Formalin
3. Picric acid
4. Ethyl alcohol

Options :

71087027841. 1
71087027842. 2
71087027843. 3
71087027844. 4

Question Number : 62 Question Id : 7108706962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The pore size of the membrane filter used in bacteriology is

1. 0.22 μ
2. 0.022 μ
3. 0.0022 μ
4. 2.20 μ

Options :

- 71087027845. 1
- 71087027846. 2
- 71087027847. 3
- 71087027848. 4

Question Number : 63 Question Id : 7108706963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a blood-forming organ of fish?

1. Anterior kidney
2. Liver
3. Spleen
4. Gill

Options :

- 71087027849. 1
- 71087027850. 2
- 71087027851. 3
- 71087027852. 4

Question Number : 64 Question Id : 7108706964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

When cells are injured, which one of the following occurs at the site of injury, as an immediate protective response?

1. Inclusion body
2. Tumours
3. Inflammation
4. Ascites

Options :

- 71087027853. 1
- 71087027854. 2
- 71087027855. 3
- 71087027856. 4

Question Number : 65 Question Id : 7108706965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In fish, the antigen presenting cells are

1. Macrophages
2. Monocytes
3. Leucocytes
4. Neutrophils

Options :

- 71087027857. 1
- 71087027858. 2
- 71087027859. 3
- 71087027860. 4

Question Number : 66 Question Id : 7108706966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The IgM has a molecular weight of

1. 1 lakh kDa
2. 3 lakh kDa
3. 6 lakh kDa
4. 9 lakh kDa

Options :

71087027861. 1
71087027862. 2
71087027863. 3
71087027864. 4

Question Number : 67 Question Id : 7108706967 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of these genetic traits of an animal confers tolerance against a specific pathogen?

1. SPF stocks
2. SPT stocks
3. SPR stocks
4. SPP stocks

Options :

71087027865. 1
71087027866. 2
71087027867. 3
71087027868. 4

Question Number : 68 Question Id : 7108706968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT involved in the nitrogen cycle in an aquatic environment?

1. *Nitrobacter*
2. *Nitrosomonas*
3. *Nitrosococcus*
4. *Rhodococcus*

Options :

71087027869. 1
71087027870. 2
71087027871. 3
71087027872. 4

Question Number : 69 Question Id : 7108706969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In order to inactivate chlorine, the amount of thiosulphate should be how many times the amount of chlorine (in grams)?

1. 2.85
2. 0.285
3. 28.5
4. 0.78

Options :

71087027873. 1
71087027874. 2
71087027875. 3
71087027876. 4

Question Number : 70 Question Id : 7108706970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Under optimal condition, how many grams of zeolite can remove 9 mg of ammonia?

1. 100
2. 10
3. 1
4. 0.1

Options :

71087027877. 1
71087027878. 2
71087027879. 3
71087027880. 4

Part C Fish Nutrition and Feed Technology

Section Id :	710870174
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870174
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 7108706971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Relative gut length of herbivorous fishes (Ratio of the intestine to body length) is

1. 0.8-20
2. 0.8-30
3. 0.8-40
4. 0.8-50

Options :

- 71087027881. 1
- 71087027882. 2
- 71087027883. 3
- 71087027884. 4

Question Number : 72 Question Id : 7108706972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following amino acids improves the reproductive efficiency of fish?

1. Valine
2. Alanine
3. Serine
4. Tryptophan

Options :

- 71087027885. 1
- 71087027886. 2
- 71087027887. 3
- 71087027888. 4

Question Number : 73 Question Id : 7108706973 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a proximate principle?

1. Crude protein
2. Ether extract
3. Acid insoluble ash
4. Nitrogen free extract

Options :

- 71087027889. 1
- 71087027890. 2
- 71087027891. 3
- 71087027892. 4

Question Number : 74 Question Id : 7108706974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Trypsinogen is activated by

1. Bile
2. Chymotrypsin
3. Enterokinase
4. HCl

Options :

- 71087027893. 1
- 71087027894. 2
- 71087027895. 3
- 71087027896. 4

Question Number : 75 Question Id : 7108706975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the major anti-nutritional factor in mustard oil cake?

1. Glucosinolates
2. Gossipol
3. Mimosine
4. Phytic acid

Options :

71087027897. 1
71087027898. 2
71087027899. 3
71087027900. 4

Question Number : 76 Question Id : 7108706976 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the major anti-nutritional factor in Castor seed kernel meal?

1. Phorbol ester
2. Ricin
3. Mimosine
4. Aflatoxin B1

Options :

71087027901. 1
71087027902. 2
71087027903. 3
71087027904. 4

Question Number : 77 Question Id : 7108706977 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Supplementation of lecithin in aquafeed overcomes the deficiency of

1. Essential amino acids
2. Essential fatty acids
3. Essential minerals
4. Essential vitamins

Options :

- 71087027905. 1
- 71087027906. 2
- 71087027907. 3
- 71087027908. 4

Question Number : 78 Question Id : 7108706978 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Majority of shrimp feeds in India are manufactured by

1. Plate die pelletizer
2. Ring die pelletizer
3. Twin screw extruder
4. Single screw extruder

Options :

- 71087027909. 1
- 71087027910. 2
- 71087027911. 3
- 71087027912. 4

Question Number : 79 Question Id : 7108706979 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Larval shrimp feeds are manufactured by a combination of

1. Steam compressed pelleting and drum coating
2. Extrusion and drum coating
3. Steam compressed pelleting and crumbling
4. Extrusion and spheronizing

Options :

- 71087027913. 1
- 71087027914. 2
- 71087027915. 3
- 71087027916. 4

Question Number : 80 Question Id : 7108706980 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most effective method of increasing the oil content in the pellet is

1. Fat sprayer
2. Drum type oil coater
3. Spheronization
4. Vacuum coater

Options :

- 71087027917. 1
- 71087027918. 2
- 71087027919. 3
- 71087027920. 4

Question Number : 81 Question Id : 7108706981 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Maximum moisture level recommended for shrimp feed is

1. 8%
2. 11%
3. 14%
4. 17%

Options :

- 71087027921. 1
- 71087027922. 2
- 71087027923. 3
- 71087027924. 4

Question Number : 82 Question Id : 7108706982 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Transcriptomics is the study of

1. Identification and quantification of proteoms
2. Identification and quantification of metabolims
3. Monitoring the mRNA from DNA
4. Detection and examination of DNA methylation patterns

Options :

- 71087027925. 1
- 71087027926. 2
- 71087027927. 3
- 71087027928. 4

Question Number : 83 Question Id : 7108706983 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a type of cell present in the hepatopancreas of shrimp?

1. T
2. E
3. R
4. B

Options :

71087027929. 1
71087027930. 2
71087027931. 3
71087027932. 4

Question Number : 84 Question Id : 7108706984 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Gill rakers are numerous and elongated in which type of fishes?

1. Predators
2. Parasites
3. Suckers
4. Strainers

Options :

71087027933. 1
71087027934. 2
71087027935. 3
71087027936. 4

Question Number : 85 Question Id : 7108706985 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Mineral involved in the activity of glutathione peroxidase is

1. Copper
2. Manganese
3. Zinc
4. Selenium

Options :

- 71087027937. 1
- 71087027938. 2
- 71087027939. 3
- 71087027940. 4

Question Number : 86 Question Id : 7108706986 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

L-Carnitine is synthesized from

1. Arginine
2. Histidine
3. Lysine
4. Methionine

Options :

- 71087027941. 1
- 71087027942. 2
- 71087027943. 3
- 71087027944. 4

Question Number : 87 Question Id : 7108706987 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The end product of aerobic glycolysis is

1. Lactate
2. Acetyl CoA
3. Pyruvate
4. Oxaloacetate

Options :

71087027945. 1
71087027946. 2
71087027947. 3
71087027948. 4

Question Number : 88 Question Id : 7108706988 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

NADPH required in the fatty acid biosynthesis, is sourced from

1. Glycolysis
2. Kreb's cycle
3. Hexose monophosphate shunt
4. Glycogenolysis

Options :

71087027949. 1
71087027950. 2
71087027951. 3
71087027952. 4

Question Number : 89 Question Id : 7108706989 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The number of β -oxidation cycles required for complete oxidation of stearic acid is

1. 7
2. 8
3. 9
4. 10

Options :

- 71087027953. 1
- 71087027954. 2
- 71087027955. 3
- 71087027956. 4

Question Number : 90 Question Id : 7108706990 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fish suffer from nutritional muscular dystrophy due to the deficiency of

1. Ascorbic acid
2. Tocopherol
3. Cyanocobalamine
4. Retinol

Options :

- 71087027957. 1
- 71087027958. 2
- 71087027959. 3
- 71087027960. 4

Question Number : 91 Question Id : 7108706991 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Selective cell membrane permeability and membrane fluidity in shrimp, is the function of

1. Sphingolipid
2. Triglyceride
3. Wax-esters
4. Lecithin

Options :

- 71087027961. 1
- 71087027962. 2
- 71087027963. 3
- 71087027964. 4

Question Number : 92 Question Id : 7108706992 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which steroid hormone helps in moulting in shrimp?

1. Ecdysone
2. Testosterone
3. Estradiol
4. Cortisol

Options :

- 71087027965. 1
- 71087027966. 2
- 71087027967. 3
- 71087027968. 4

Question Number : 93 Question Id : 7108706993 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The range of crude protein levels in commercial feeds marketed in India for shrimp aquaculture is

1. 24-32
2. 32-40
3. 40-48
4. 48-56

Options :

71087027969. 1
71087027970. 2
71087027971. 3
71087027972. 4

Question Number : 94 Question Id : 7108706994 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT the least cost formulation method?

1. Linear programming
2. Solver function
3. Pearson square
4. Win-feed

Options :

71087027973. 1
71087027974. 2
71087027975. 3
71087027976. 4

Question Number : 95 Question Id : 7108706995 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT a protein quality measure?

1. PER
2. NPU
3. BV
4. ADG

Options :

71087027977. 1
71087027978. 2
71087027979. 3
71087027980. 4

Question Number : 96 Question Id : 7108706996 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following types of feed is suitable for tray/basket feeding?

1. Moist ball
2. Floating pellet
3. Mash
4. Slow sinking pellet

Options :

71087027981. 1
71087027982. 2
71087027983. 3
71087027984. 4

Question Number : 97 Question Id : 7108706997 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following relates to gluconeogenesis?

1. Synthesis of glucose from cellulose
2. Synthesis of glucose from starch
3. Synthesis of glucose from glycogen
4. Synthesis of glucose from amino acid

Options :

- 71087027985. 1
- 71087027986. 2
- 71087027987. 3
- 71087027988. 4

Question Number : 98 Question Id : 7108706998 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Shrimp feeds should not be stored for more than 3 months in Indian conditions

Reason R: Coastal states have high temperature and relative humidity

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

Options :

- 71087027989. 1
- 71087027990. 2
- 71087027991. 3
- 71087027992. 4

Question Number : 99 Question Id : 7108706999 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Oil coating is the process of shrimp feed manufacturing

Reason R: Vacuum coaters are efficient oil coaters of pellets

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

Options :

71087027993. 1

71087027994. 2

71087027995. 3

71087027996. 4

Question Number : 100 Question Id : 7108707000 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other one is labelled as **Reason R**

Assertion A: Extruded pellets have good water stability

Reason R: Binders are used in making extruded pellets

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

Options :

71087027997. 1

71087027998. 2

71087027999. 3

71087028000. 4

Question Number : 101 Question Id : 7108707001 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Sinking pellets are suitable for shrimp culture

Reason R: Ring die pellet mill produces sinking pellets by compaction

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

Options :

71087028001. 1

71087028002. 2

71087028003. 3

71087028004. 4

Question Number : 102 Question Id : 7108707002 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Extruded pellets have more gelatinized starch than steam compressed pellets

Reason R: Water stability of extruded pellets is lower than that of steam compressed pellets

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

Options :

71087028005. 1

71087028006. 2

71087028007. 3

71087028008. 4

Question Number : 103 Question Id : 7108707003 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Omega-3 fatty acid-rich aquafeed is considered as functional feed

Reason R: Arachidonic acid improves the hatchability in marine fish larvae

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

Options :

71087028009. 1

71087028010. 2

71087028011. 3

71087028012. 4

Question Number : 104 Question Id : 7108707004 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and other is labelled as **Reason R**

Assertion A: Tiger shrimp can utilize a higher protein diet efficiently due to the presence of pepsin

Reason R: Pepsin is a very potent proteolytic enzyme

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

Options :

71087028013. 1

71087028014. 2

71087028015. 3

71087028016. 4

Question Number : 105 Question Id : 7108707005 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Asian seabass grow-out feeds have higher lipid content

Reason R: Lipid content of extruded pellet can be considerably increased by oil coating

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

Options :

71087028017. 1

71087028018. 2

71087028019. 3

71087028020. 4

Question Number : 106 Question Id : 7108707006 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Dietary supplementation of acidifier improves gut health through the selective killing of pathogenic bacteria

Reason R: Supplementation of propionate improves the shelf life of aquafeed

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

Options :

71087028021. 1

71087028022. 2

71087028023. 3

71087028024. 4

Question Number : 107 Question Id : 7108707007 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Dietary egg albumin acts as feeding stimulant in fish

Reason R: Dietary free L-amino acid mixture acts as a gustatory stimulant in fish

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

Options :

71087028025. 1

71087028026. 2

71087028027. 3

71087028028. 4

Question Number : 108 Question Id : 7108707008 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the is labelled as **Reason R**

Assertion A: Supplementation of BHA/BHT prevents the rancidity of lipid in feed during storage

Reason R: Vitamin C and E can be supplemented in aquafeed as synthetic antioxidants

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

Options :

71087028029. 1

71087028030. 2

71087028031. 3

71087028032. 4

Question Number : 109 Question Id : 7108707009 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and other one labelled as **Reason R**

Assertion A: Fish meal is the most commonly used feed ingredient in shrimp feed

Reason R: The high amounts of volatile nitrogen compounds in fishmeal acts as feed attractants

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

Options :

71087028033. 1

71087028034. 2

71087028035. 3

71087028036. 4

Question Number : 110 Question Id : 7108707010 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: *Litopenaeus vannamei* can not utilize lipid efficiently if its dietary levels are above 10%

Reason R: The bile is absent in shrimp

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

Options :

71087028037. 1

71087028038. 2

71087028039. 3

71087028040. 4

Question Number : 111 Question Id : 7108707011 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and other one labelled as **Reason R**

Assertion A: Nutritional quality of copepods is better than rotifers

Reason R: Copepods are being commonly used in marine finfish hatcheries at present for first feeding of larvae

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

Options :

71087028041. 1

71087028042. 2

71087028043. 3

71087028044. 4

Question Number : 112 Question Id : 7108707012 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements, one is labelled as **Assertion A** and the other is labelled as **Reason R**

Assertion A: Fish feed often needs to be supplemented with phosphorous as its presence in water is limited

Reason R: Fish absorbs sufficient calcium from their water environment

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

Options :

71087028045. 1

71087028046. 2

71087028047. 3

71087028048. 4

Question Number : 113 Question Id : 7108707013 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Alanine	I. L-Carnitine
B. Arginine	II. Serotonin
C. Lysine	III. Nitrous oxide
D. Tryptophan	IV. Dopamine

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

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

Options :

71087028049. 1

71087028050. 2

71087028051. 3

71087028052. 4

Question Number : 114 Question Id : 7108707014 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Pepsin	I. Carboxyl side of basic amino acids
B. Trypsin	II. Amino side of basic amino acids
C. Chymotrypsin	III. Amino side of aromatic amino acids
D. Aminopeptidase	IV. Carboxyl side of aromatic amino acids

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

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

Options :

- 71087028053. 1
- 71087028054. 2
- 71087028055. 3
- 71087028056. 4

Question Number : 115 Question Id : 7108707015 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Lysine	I. Branched amino acid
B. Tyrosine	II. Sulfur-containing amino acid
C. Methionine	III. Aromatic amino acid
D. Leucine	IV. Basic amino acid

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

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

Options :

71087028057. 1
71087028058. 2
71087028059. 3
71087028060. 4

Question Number : 116 Question Id : 7108707016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

List I	List II
A. Sinking pellet	I. Pulverizer
B. Coarse grinding	II. Extruder
C. Fine grinding	III. Ring die
D. Floating pellet	IV. Hammer mill

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

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

Options :

- 71087028061. 1
- 71087028062. 2
- 71087028063. 3
- 71087028064. 4

Question Number : 117 Question Id : 7108707017 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Sequence of shrimp feed manufacturing

- A. Grinding
- B. Mixing
- C. Sieving
- D. Pre-conditioning
- E. Pelleting

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

- 1. A, B, C, E, D
- 2. A, B, C, D, E
- 3. A, C, B, D, E
- 4. A, C, B, E, D

Options :

- 71087028065. 1
- 71087028066. 2
- 71087028067. 3
- 71087028068. 4

Question Number : 118 Question Id : 7108707018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Descending order of protein synthesis in fish

A. White muscle

B. Red muscle

C. Gill

D. Digestive tract

E. Liver

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

1. D, E, B, A, C

2. E, D, A, B, C

3. E, B, A, D, C

4. E, C, D, B, A

Options :

71087028069. 1

71087028070. 2

71087028071. 3

71087028072. 4

Question Number : 119 Question Id : 7108707019 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Fishmeal quality is assessed by Acetone index

Statement II: Soylecithin quality is assessed by the Acid value

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

Options :

71087028073. 1

71087028074. 2

71087028075. 3

71087028076. 4

Question Number : 120 Question Id : 7108707020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Analysis of lipid by petroleum ether does not include phospholipid

Statement II: Analysis of lipid by the chloroform-methanol method includes phospholipids

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

Options :

71087028077. 1

71087028078. 2

71087028079. 3

71087028080. 4