

National Testing Agency

Question Paper Name :	Fish Nutrition and Feed Technology 17th September Shift 2
Subject Name :	Fish Nutrition and Feed Technology
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Display Marks:	Yes

Fish Nutrition and Feed Technology

Group Number :	1
Group Id :	190889130
Group Maximum Duration :	0
Group Minimum Duration :	120
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 :	190889314
Section Number :	1
Section type :	Online

Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889354
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 19088914902 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Which of the following is the device used to measure the power and speed of the wind?

1. Avometer
2. Anemometer
3. Airometer
4. Aviontimeter

Options :

19088959501. 1
19088959502. 2
19088959503. 3
19088959504. 4

Question Number : 2 Question Id : 19088914903 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 4 Wrong Marks : 1

Optical fibre used the concept of which of the following?

1. Reflection
2. Refraction
3. Total internal reflection
4. Total internal refraction

Options :

- 19088959505. 1
- 19088959506. 2
- 19088959507. 3
- 19088959508. 4

Question Number : 3 Question Id : 19088914904 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Yellow vein mosaic is the viral disease of which of the following plants?

- 1. Ladyfinger
- 2. Papaya
- 3. Sugarcane
- 4. Banana

Options :

- 19088959509. 1
- 19088959510. 2
- 19088959511. 3
- 19088959512. 4

Question Number : 4 Question Id : 19088914905 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following organ(s) is affected by Mumps disease?

- 1. Entire body
- 2. Skin
- 3. Eye
- 4. Parotid

Options :

- 19088959513. 1
- 19088959514. 2

19088959516. 4

Question Number : 5 Question Id : 19088914906 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is the chemical name of vitamin B₂?

1. Riboflavin
2. Calciferol
3. Pyridoxin
4. Niacin

Options :

19088959517. 1

19088959518. 2

19088959519. 3

19088959520. 4

Question Number : 6 Question Id : 19088914907 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is not the input unit of the computer?

1. Mouse
2. Keyboard
3. Screen
4. Scanner

Options :

19088959521. 1

19088959522. 2

19088959523. 3

19088959524. 4

Question Number : 7 Question Id : 19088914908 Question Type : MCQ Option Shuffling : No Is

Correct Marks : 4 Wrong Marks : 1

The digital computer operates on which of the following principle?

1. Measurement
2. Calculation
3. Logical
4. Electrification

Options :

19088959525. 1

19088959526. 2

19088959527. 3

19088959528. 4

Question Number : 8 Question Id : 19088914909 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The non-cooperation movement of Gandhiji was launched in which of the following year?

1. 1915
2. 1922
3. 1920
4. 1930

Options :

19088959529. 1

19088959530. 2

19088959531. 3

19088959532. 4

Question Number : 9 Question Id : 19088914910 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

An Islamic revivalist movement named Wahabi movement was founded by which of the following person?

1. Sian Saheb
2. Syed Ahmed
3. Haji Shariat-Allah
4. DaduMian

Options :

19088959533. 1

19088959534. 2

19088959535. 3

19088959536. 4

Question Number : 10 Question Id : 19088914911 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is considered as the “Magna Carta of England Education in India”?

1. Hunter education commission
2. Lord Macaulay’s Minute
3. Wood’s Despatch
4. Thomas Babington Macaulay

Options :

19088959537. 1

19088959538. 2

19088959539. 3

19088959540. 4

Question Number : 11 Question Id : 19088914912 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following nutrient does not come under the ambit of 'macro-nutrients in Soil Health Card?

1. Nitrogen
2. Zinc
3. Phosphorous
4. Potassium

Options :

19088959541. 1

19088959542. 2

19088959543. 3

19088959544. 4

Question Number : 12 Question Id : 19088914913 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Cole crops, root crops and legumes come under the ambit of which of the following?

1. Olericulture
2. Pomology
3. Viticulture
4. Arboriculture

Options :

19088959545. 1

19088959546. 2

19088959547. 3

19088959548. 4

Question Number : 13 Question Id : 19088914914 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The study of individual trees, shrubs, vines, and perennial woody plants is known as which of the following?

1. Turf management
2. Arboriculture
3. Pomology
4. Viticulture

Options :

19088959549. 1

19088959550. 2

19088959551. 3

19088959552. 4

Question Number : 14 Question Id : 19088914915 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The ministry is implementing MIDH (Mission for Integrated Development of Horticulture) with effect from which of the following year?

1. 2012-13
2. 2019-20
3. 2015-16
4. 2014-15

Options :

19088959553. 1

19088959554. 2

19088959555. 3

19088959556. 4

Question Number : 15 Question Id : 19088914916 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The interaction of soils with living things, particularly plants are well known as which of the following?

1. Edaphology
2. Pedology
3. Soil zoology
4. Pedogenesis

Options :

19088959557. 1

19088959558. 2

19088959559. 3

19088959560. 4

Question Number : 16 Question Id : 19088914917 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following systems has also incorporated social aspects in itself?

1. Landscaping
2. Permaculture
3. Horticulture
4. Forest gardening

Options :

19088959561. 1

19088959562. 2

19088959563. 3

19088959564. 4

Question Number : 17 Question Id : 19088914918 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

What do you term the phenomenon whereby the specific gene is added to the plant for producing a desirable phenotype?

1. Genetic manipulation
2. Genetic recombination
3. Genetic modification
4. Genetic hybridisation

Options :

19088959565. 1

19088959566. 2

19088959567. 3

19088959568. 4

**Question Number : 18 Question Id : 19088914919 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

What is the focus of the participatory plant breeding program?

1. Scientists
2. Plants
3. Environment
4. Farmers

Options :

19088959569. 1

19088959570. 2

19088959571. 3

19088959572. 4

**Question Number : 19 Question Id : 19088914920 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

How do you term the form of agriculture, in which, industrialized production of crops and animal products takes place?

1. Manufactured agriculture
2. Modern agriculture
3. Industrial agriculture
4. Mechanistic agriculture

Options :

19088959573. 1

19088959574. 2

19088959575. 3

19088959576. 4

**Question Number : 20 Question Id : 19088914921 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Micro-irrigation fund of Rs. 5,000 crore has been placed with which of the following organization?

1. NABARD
2. IDBI
3. SBI
4. RRBs

Options :

19088959577. 1

19088959578. 2

19088959579. 3

19088959580. 4

Part B Core : Fishery Science-II

Section Id : 190889315

Section Number : 2

Section type : Online

Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	190889355
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 19088914922 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following shrimp culture systems uses auto-stocking method of stocking?

1. Semi-intensive
2. Extensive
3. Super-Intensive
4. Intensive

Options :

19088959581. 1

19088959582. 2

19088959583. 3

19088959584. 4

Question Number : 22 Question Id : 19088914923 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Seed production technology for seabass was developed by

1. ICAR-CIFA
2. ICAR-CIFT
3. ICAR-CMFRI
4. ICAR-CIBA

Options :

- 19088959585. 1
- 19088959586. 2
- 19088959587. 3
- 19088959588. 4

Question Number : 23 Question Id : 19088914924 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Feed is the most expensive input in

- 1. Extensive aquaculture system
- 2. Intensive aquaculture system
- 3. Semi-intensive aquaculture system
- 4. Modified extensive aquaculture system

Options :

- 19088959589. 1
- 19088959590. 2
- 19088959591. 3
- 19088959592. 4

Question Number : 24 Question Id : 19088914925 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following shrimp culture system is commonly practiced in India?

- 1. Intensive system
- 2. Semi-intensive system
- 3. Extensive system
- 4. Super-intensive system

Options :

- 19088959593. 1
- 19088959594. 2

19088959595. 3

19088959596. 4

Question Number : 25 Question Id : 19088914926 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The preferred stocking density of IMCs broodstock in pond is

1. 500 Kg/ha
2. 1000 Kg/ha
3. 3000 Kg/ha
4. 2000 Kg/ha

Options :

19088959597. 1

19088959598. 2

19088959599. 3

19088959600. 4

Question Number : 26 Question Id : 19088914927 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

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: Catla has upturned mouth with prominent protruding lower jaw.

Reason R: Catla feeds on zooplankton present in upper layer of pond water.

In light of the above statements, choose the *most appropriate* 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

Options :

19088959601. 1

19088959602. 2

19088959603. 3

19088959604. 4

Question Number : 27 Question Id : 19088914928 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

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: Murrels are grouped under Air-breathing catfish.

Reason R: Murrels can survive in low dissolved oxygen water.

In light of the above statements, choose the *most appropriate* 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

Options :

19088959605. 1

19088959606. 2

19088959607. 3

19088959608. 4

Question Number : 28 Question Id : 19088914929 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following live feeds having smallest size and very useful in fish larval rearing?

1. *Artemia nauplii*
2. *Parvocalanus* sp.
3. *Acartia* sp.
4. *Brachionus* sp.

Options :

19088959609. 1

19088959610. 2

19088959611. 3

19088959612. 4

Question Number : 29 Question Id : 19088914930 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

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 production in RAS is highly profitable.

Reason R: Fish production per unit area in RAS is very high in comparison to pond culture.

In light of the above statements, choose the *most appropriate* 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

Options :

19088959613. 1

19088959614. 2

19088959615. 3

19088959616. 4

Question Number : 30 Question Id : 19088914931 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

- 19088959617. 1
- 19088959618. 2
- 19088959619. 3
- 19088959620. 4

Question Number : 31 Question Id : 19088914932 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Freshwater prawns come under which phylum?

- 1. Mollusc
- 2. Chordate
- 3. Arthropoda
- 4. Protozoa

Options :

- 19088959621. 1
- 19088959622. 2
- 19088959623. 3
- 19088959624. 4

Question Number : 32 Question Id : 19088914933 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Fenneropenaeus indicus prefers

- 1. Muddy bottom
- 2. Humus filled bottom
- 3. Sandy bottom
- 4. No preference

Options :

- 19088959625. 1
- 19088959626. 2
- 19088959627. 3

19088959628. 4

Question Number : 33 Question Id : 19088914934 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is called as water stick?

1. Belostoma
2. Ranatra
3. Notonecta
4. Nepa

Options :

19088959629. 1

19088959630. 2

19088959631. 3

19088959632. 4

Question Number : 34 Question Id : 19088914935 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The dosage of ovatide given to carp males is

1. 0.2-0.3 ml/Kg
2. 1.0 ml/Kg
3. 0.7-0.8 ml/Kg
4. 0.5 ml/Kg

Options :

19088959633. 1

19088959634. 2

19088959635. 3

19088959636. 4

Question Number : 35 Question Id : 19088914936 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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: Females of major carp attain the first maturity later than males of the same age group.

Reason R: Because males take more feed than females before attaining their first maturity.

In light of the above statements, choose the *most appropriate* 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

Options :

19088959637. 1

19088959638. 2

19088959639. 3

19088959640. 4

Question Number : 36 Question Id : 19088914937 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which is the major haemopoietic organ of fish?

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

Options :

19088959641. 1

19088959642. 2

19088959643. 3

19088959644. 4

Question Number : 37 Question Id : 19088914938 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is commonly known as kareemeen?

1. Pompano
2. Pearl spot
3. Snapper
4. Tilapia

Options :

19088959645. 1

19088959646. 2

19088959647. 3

19088959648. 4

Question Number : 38 Question Id : 19088914939 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is preferred first food for carp larvae?

1. Copepods
2. Cladocerans
3. Rotifers
4. Cyclops

Options :

19088959649. 1

19088959650. 2

19088959651. 3

19088959652. 4

Question Number : 39 Question Id : 19088914940 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

In fish, during spawning period

1. GSI decreases
2. GSI increases
3. GSI remains unchanged
4. Ova diameter decreases

Options :

19088959653. 1

19088959654. 2

19088959655. 3

19088959656. 4

Question Number : 40 Question Id : 19088914941 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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: Non-specific immunity is first line of defence in fishes.

Reason R: Acquired immunity is comparatively weak in shell fishes.

In light of the above statements, choose the *most appropriate* 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

Options :

19088959657. 1

19088959658. 2

19088959659. 3

19088959660. 4

Question Number : 41 Question Id : 19088914942 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Kupffer cells are macrophages present in

1. Brain
2. Liver
3. Muscle
4. Kidney

Options :

19088959661. 1

19088959662. 2

19088959663. 3

19088959664. 4

Question Number : 42 Question Id : 19088914943 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

B cells and T cells are type of

1. Neutrophils
2. Basophiles
3. Lymphocytes
4. Antibodies

Options :

19088959665. 1

19088959666. 2

19088959667. 3

19088959668. 4

Question Number : 43 Question Id : 19088914944 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The lymphoid organ that works as both primary and secondary lymphoid organ in fish is

1. Spleen
2. Liver
3. Head Kidney
4. Bone Marrow

Options :

19088959669. 1

19088959670. 2

19088959671. 3

19088959672. 4

Question Number : 44 Question Id : 19088914945 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Antigens are present in which of the following cells?

1. Neutrophils
2. Basophils
3. Eosinophils
4. Macrophages

Options :

19088959673. 1

19088959674. 2

19088959675. 3

19088959676. 4

Question Number : 45 Question Id : 19088914946 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Fish IgM is

1. Monomeric
2. Dimeric
3. Trimeric
4. Tetrameric

Options :

- 19088959677. 1
- 19088959678. 2
- 19088959679. 3
- 19088959680. 4

Question Number : 46 Question Id : 19088914947 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which one of the following is an acute phage protein?

- 1. Complement
- 2. Antigen
- 3. Antibody
- 4. CRP

Options :

- 19088959681. 1
- 19088959682. 2
- 19088959683. 3
- 19088959684. 4

Question Number : 47 Question Id : 19088914948 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Transboundary movement of disease is called

- 1. Panzootic
- 2. Epizootic
- 3. Enzootic
- 4. Zoonotic

Options :

- 19088959685. 1
- 19088959686. 2

19088959688. 4

Question Number : 48 Question Id : 19088914949 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Commonly used disinfectant in aquaculture is

1. NaCl
2. Malachite Green
3. Copper Sulphate
4. KMnO_4

Options :

19088959689. 1

19088959690. 2

19088959691. 3

19088959692. 4

Question Number : 49 Question Id : 19088914950 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Dry ice is solid form of-

1. Carbon dioxide
2. Nitrogen
3. Sulphur dioxide
4. Methane

Options :

19088959693. 1

19088959694. 2

19088959695. 3

19088959696. 4

Question Number : 50 Question Id : 19088914951 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is used for tissue fixation?

1. HCHO
2. EDTA
3. NaCl
4. KMnO₄

Options :

19088959697. 1

19088959698. 2

19088959699. 3

19088959700. 4

Question Number : 51 Question Id : 19088914952 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

White spot disease of fish is caused by which of the following ?

1. *Ichthyophthirus multifilis*
2. *Ichthyobodo nector*
3. *Myxobolous cerebralis*
4. *Yersinia ruckeri*

Options :

19088959701. 1

19088959702. 2

19088959703. 3

19088959704. 4

Question Number : 52 Question Id : 19088914953 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Zoonotic disease is described as transmission of disease

1. From animal to human
2. From animal to animal
3. From human to animal
4. From human to human

Options :

19088959705. 1

19088959706. 2

19088959707. 3

19088959708. 4

Question Number : 53 Question Id : 19088914954 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is a gram positive pathogenic bacteria?

1. *Yersinia ruckeri*
2. *Aeromonas hydrophila*
3. *Streptococcus*
4. *Flavobacterium columnare*

Options :

19088959709. 1

19088959710. 2

19088959711. 3

19088959712. 4

Question Number : 54 Question Id : 19088914955 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Symptoms of Exophthalmia are related to

1. Brain
2. Eye
3. Skin
4. Kidney

Options :

19088959713. 1

19088959714. 2

19088959715. 3

19088959716. 4

Question Number : 55 Question Id : 19088914956 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Aflatoxin is produced by

1. *Aspergillus*
2. *Branchiomysis demigrans*
3. *Branchiomysis sanguinis*
4. *Ichthyobodo nector*

Options :

19088959717. 1

19088959718. 2

19088959719. 3

19088959720. 4

Question Number : 56 Question Id : 19088914957 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Latest Indian fish production is

1. 12.50 mmt
2. 11.25 mmt
3. 14.16 mmt
4. 18.50 mmt

Options :

19088959721. 1

19088959722. 2

19088959723. 3

19088959724. 4

Question Number : 57 Question Id : 19088914958 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Latest global aquaculture production excluding aquatic plants, as per FAO data, is

1. 82 mmt
2. 65 mmt
3. 98 mmt
4. 76 mmt

Options :

19088959725. 1

19088959726. 2

19088959727. 3

19088959728. 4

Question Number : 58 Question Id : 19088914959 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The available ponds and tanks resources for fish culture in the country, as per Government of India statistics, is

1. 3.15 m ha
2. 1.85 m ha
3. 4.15 m ha
4. 2.35 m ha

Options :

19088959729. 1

19088959730. 2

19088959731. 3

19088959732. 4

**Question Number : 59 Question Id : 19088914960 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

High PER in fish fed with higher carbohydrate is due to

1. High water retention
2. High protein retention
3. High fat deposition
4. High carbohydrate deposition

Options :

19088959733. 1

19088959734. 2

19088959735. 3

19088959736. 4

**Question Number : 60 Question Id : 19088914961 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Enzymes Carboxypeptidases belong to the group

1. Endopeptidase
2. Exopeptidase
3. Cystine protease
4. Amino peptidase

Options :

19088959737. 1

19088959738. 2

19088959739. 3

19088959740. 4

Question Number : 61 Question Id : 19088914962 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following nutrient is absorbed by facilitated diffusion

1. Glucose
2. Tryptophan
3. Lysine
4. Fructose

Options :

19088959741. 1

19088959742. 2

19088959743. 3

19088959744. 4

Question Number : 62 Question Id : 19088914963 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Ring test is used to test the digestibility of

1. Fish meal
2. Fish oil
3. Fish silage
4. Fish fillet

Options :

- 19088959745. 1
- 19088959746. 2
- 19088959747. 3
- 19088959748. 4

Question Number : 63 Question Id : 19088914964 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Haemorrhagic kidney is the symptom of deficiency of

- 1. Niacin
- 2. Iron
- 3. Choline
- 4. Calcium

Options :

- 19088959749. 1
- 19088959750. 2
- 19088959751. 3
- 19088959752. 4

Question Number : 64 Question Id : 19088914965 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Feeding of excess untreated cotton seed cake in fish feeds causes

- 1. Gill necrosis
- 2. Liver necrosis
- 3. Caudal necrosis
- 4. Pancrease necrosis

Options :

- 19088959753. 1
- 19088959754. 2

19088959756. 4

Question Number : 65 Question Id : 19088914966 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The presence of which of the following in fish meals is a major concern for the fish feed industry?

1. Polyphenols
2. Polychlorines
3. Polypropylene
4. Polychlorinated biphenyls

Options :

19088959757. 1

19088959758. 2

19088959759. 3

19088959760. 4

Question Number : 66 Question Id : 19088914967 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Preferred food of freshwater prawn , *Macrobrachium rosenbergii* larvae in the absence of *Artemia* is

1. Moina
2. Rotifer
3. Daphnia
4. Ostracod

Options :

19088959761. 1

19088959762. 2

19088959763. 3

19088959764. 4

Question Number : 67 Question Id : 19088914968 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
Fish/shellfish	Ideal feed
A. Rohu spawn	I. Artemia nauplii
B. Scampi larvae	II. Rotifers
C. Seabass larvae	III. Animal waste
D. Pangasius	IV. Cladocerans

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

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

Options :

19088959765. 1

19088959766. 2

19088959767. 3

19088959768. 4

Question Number : 68 Question Id : 19088914969 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

With optimum pond management as well as feeding of formulated balanced feeds , it is possible to get carp production (tonnes/ha/year) as high as,

1. 12-13
2. 15-17
3. 18-21
4. 10-12

Options :

19088959769. 1

19088959770. 2

19088959771. 3

19088959772. 4

Question Number : 69 Question Id : 19088914970 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Dietary protein requirement of fish has a linear relationship with

1. FCR
2. FER
3. SGR
4. NPR

Options :

19088959773. 1

19088959774. 2

19088959775. 3

19088959776. 4

Question Number : 70 Question Id : 19088914971 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
Vitamins	Recommended levels in prawn/shrimp diet
A. A	I. 100-200 IU
B. K	II. 50-100 mg
C. E	III. 5000-10000 IU
D. C	IV. 200-400 mg

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

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

Options :

19088959777. 1

19088959778. 2

19088959779. 3

19088959780. 4

Part C : Fish Nutrition and Feed Technology

Section Id : 190889316

Section Number : 3

Section type : Online

Mandatory or Optional : Mandatory

Number of Questions : 50

Number of Questions to be attempted : 50

Section Marks : 200

Enable Mark as Answered Mark for Review and Clear Response : Yes

Sub-Section Number : 1

Sub-Section Id : 190889356

Question Shuffling Allowed :

Yes

Question Number : 71 Question Id : 19088914972 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Required protein level in the diet of Indian major carps in pond based semi-intensive aquaculture is

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

Options :

19088959781. 1

19088959782. 2

19088959783. 3

19088959784. 4

Question Number : 72 Question Id : 19088914973 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Water stability of extruded feeds as compared to normal hard pellets is

1. Lower
2. Higher
3. Equal
4. Negligible

Options :

19088959785. 1

19088959786. 2

19088959787. 3

19088959788. 4

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Feed ingredients of marine origin when compared to freshwater or terrestrial sources have

1. More HUFAs
2. Less HUFAs
3. Similar levels of HUFAs
4. Zero HUFAs content

Options :

19088959789. 1

19088959790. 2

19088959791. 3

19088959792. 4

Question Number : 74 Question Id : 19088914975 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Decomposition of organic nitrogen into ammonium ions is called -

1. Nitrification
2. Denitrification
3. Ammonification
4. Nitrogen fixation

Options :

19088959793. 1

19088959794. 2

19088959795. 3

19088959796. 4

Question Number : 75 Question Id : 19088914976 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Principal chemical mediator involved in the vasodilation during inflammatory response in fish is

1. Histamine
2. Prostaglandin
3. Methionine
4. Arginine

Options :

19088959797. 1

19088959798. 2

19088959799. 3

19088959800. 4

Question Number : 76 Question Id : 19088914977 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

According to recent belief, human health benefit derived by the consumption of fish, is due to -

1. High protein content
2. Presence of minerals
3. Presence of long chain PUFAs
4. Presence of carbohydrates

Options :

19088959801. 1

19088959802. 2

19088959803. 3

19088959804. 4

Question Number : 77 Question Id : 19088914978 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Options :

- 19088959805. 1
- 19088959806. 2
- 19088959807. 3
- 19088959808. 4

Question Number : 78 Question Id : 19088914979 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is a fat soluble vitamin?

- 1. Ascorbic acid
- 2. Vitamin B1
- 3. Vitamin B2
- 4. Vitamin E

Options :

- 19088959809. 1
- 19088959810. 2
- 19088959811. 3
- 19088959812. 4

Question Number : 79 Question Id : 19088914980 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is an essential amino acid for fish?

- 1. Histidine
- 2. Glycine
- 3. Serine
- 4. Tyrosine

Options :

- 19088959813. 1
- 19088959814. 2

19088959815. 3

19088959816. 4

**Question Number : 80 Question Id : 19088914981 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following is NOT an essential ingredient for the preparation of feed for Indian major carps?

1. Oil cake or meal
2. Oil or lipid
3. Fish meal
4. Vitamins

Options :

19088959817. 1

19088959818. 2

19088959819. 3

19088959820. 4

**Question Number : 81 Question Id : 19088914982 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

The vitamin required for blood clotting in fish is -

1. Vitamin D
2. Vitamin B
3. Vitamin K
4. Vitamin E

Options :

19088959821. 1

19088959822. 2

19088959823. 3

19088959824. 4

Question Number : 82 Question Id : 19088914983 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The manufacture of extruded pellet feeds for fish requires:

- A. High temperature
- B. High pressure
- C. High moisture

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

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

Options :

- 19088959825. 1
- 19088959826. 2
- 19088959827. 3
- 19088959828. 4

Question Number : 83 Question Id : 19088914984 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Proteins are the major oraganic material in fish tissue on dry weight basis constituting to

- 1. 45-55 %
- 2. 80-85 %
- 3. 35-45 %
- 4. 65-75 %

Options :

- 19088959829. 1
- 19088959830. 2
- 19088959831. 3
- 19088959832. 4

Question Number : 84 Question Id : 19088914985 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

Dietary protein requirement of *Penaeus monodon* in grow-out culture is

1. 40 %
2. 35 %
3. 50 %
4. 55 %

Options :

19088959833. 1
19088959834. 2
19088959835. 3
19088959836. 4

Question Number : 85 Question Id : 19088914986 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

Which of the following provides a vehicle for absorption of some sterols and vitamins?

1. Proteins
2. Carbohydrates
3. Lipids
4. Minerals

Options :

19088959837. 1
19088959838. 2
19088959839. 3
19088959840. 4

Question Number : 86 Question Id : 19088914987 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No
Correct Marks : 4 Wrong Marks : 1

Cholesterol is normally synthesized in the body. Which of the following group of aquatic animals require dietary cholesterol?

1. Indian major carps
2. Shrimps
3. Cat fishes
4. Trouts

Options :

19088959841. 1

19088959842. 2

19088959843. 3

19088959844. 4

**Question Number : 87 Question Id : 19088914988 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which of the following minerals play a major role in blood clotting, muscle function and nerve impulse transmission?

1. Calcium
2. Phosphorus
3. Sodium
4. Magnesium

Options :

19088959845. 1

19088959846. 2

19088959847. 3

19088959848. 4

**Question Number : 88 Question Id : 19088914989 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Ideal particle size of feed for Indian major carps in grow-out culture is

1. 1.5-2.0 mm dia
2. 3.5-4.0 mm dia
3. 4.0-5.0 mm dia
4. 2.5-3.0 mm dia

Options :

19088959849. 1

19088959850. 2

19088959851. 3

19088959852. 4

Question Number : 89 Question Id : 19088914990 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following fish feed ingredient is the best source of Eicosapentaenoic acid and Docosahexaenoic acid?

1. Sunflower oil
2. Groundnut oil
3. Herring oil
4. Ricebran oil

Options :

19088959853. 1

19088959854. 2

19088959855. 3

19088959856. 4

Question Number : 90 Question Id : 19088914991 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following organism has the capacity to withstand a very high salinity of 200-250 ppt ?

1. Cyclops
2. Moina
3. Daphnia
4. Artemia

Options :

19088959857. 1

19088959858. 2

19088959859. 3

19088959860. 4

Question Number : 91 Question Id : 19088914992 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Best live feed for larvae of freshwater prawn, *Macrobrachium rosenbergii* is

1. Cyclops
2. *Artemia nauplii*
3. Daphnia
4. Moina

Options :

19088959861. 1

19088959862. 2

19088959863. 3

19088959864. 4

Question Number : 92 Question Id : 19088914993 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

A formulated feed developed jointly by CIFT and CMFRI is

1. SILO
2. MAHIMA
3. CIFA Brood
4. Aqua Pellet

Options :

19088959865. 1

19088959866. 2

19088959867. 3

19088959868. 4

Question Number : 93 Question Id : 19088914994 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Auger type of mechanical feeder -

1. Is demand feeder
2. Feeds as per fish requirement
3. Is non-demand feeder
4. Is an active feeder

Options :

19088959869. 1

19088959870. 2

19088959871. 3

19088959872. 4

Question Number : 94 Question Id : 19088914995 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following is a phosphorylated nucleotide containing adenine, ribose, and three phosphate groups?

1. DNA
2. RNA
3. Pyruvate
4. ATP

Options :

19088959873. 1

19088959874. 2

19088959875. 3

19088959876. 4

Question Number : 95 Question Id : 19088914996 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

One mole of glucose when combusted in a calorimeter to produce CO_2 and water, how much of heat is generated ?

1. 1860 kJ
2. 2803 kJ
3. 3800 kJ
4. 2280 kJ

Options :

19088959877. 1

19088959878. 2

19088959879. 3

19088959880. 4

Question Number : 96 Question Id : 19088914997 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
Vitamins	Deficiency signs/disorders
A. Riboflavin	I. Poor growth, distended stomach
B. Pyridoxine	II. Clubbed gills, loss of appetite
C. Pantothenic acid	III. Corneal vascularization, cloudy lens
D. Inositol	IV. Nervous disorders, epileptiform fits

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

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

Options :

19088959881. 1

19088959882. 2

19088959883. 3

19088959884. 4

Question Number : 97 Question Id : 19088914998 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Choose the statements which are true

- A. Ethoxyquin is a probiotic
- B. Ethoxyquin is an antioxidant
- C. BHA is an antioxidant
- D. BHA is an antibiotic

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

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

Options :

19088959885. 1

19088959886. 2

19088959887. 3

19088959888. 4

**Question Number : 98 Question Id : 19088914999 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Which one of the following is an antagonist to thiamine and pyrithiamine?

1. Riboflavin
2. Histamine
3. Lysine
4. Acetylcholine

Options :

19088959889. 1

19088959890. 2

19088959891. 3

19088959892. 4

**Question Number : 99 Question Id : 19088915000 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

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

List I	List II
Important vitamins	Requirements for warm water fishes (carps) (mg/kg of dry diet)
A. A	I. 12
B. D	II. 60
C. E	III. 6000 IU
D. K	IV. 1000 IU

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

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

Options :

19088959893. 1

19088959894. 2

19088959895. 3

19088959896. 4

Question Number : 100 Question Id : 19088915001 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

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 : Freshwater fish have relatively low dietary requirements for long chain PUFAs.

Reason R : Marine fish do not require long chain PUFAs in their diets.

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 :

19088959897. 1

19088959898. 2

19088959899. 3

19088959900. 4

Question Number : 101 Question Id : 19088915002 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Simple fats are digested by lipases releasing

1. Fatty acids and glycerol
2. Amino acids and glycerol
3. Fatty acids and Glycine
4. Glycol and Carbon dioxide

Options :

19088959901. 1

19088959902. 2

19088959903. 3

19088959904. 4

Question Number : 102 Question Id : 19088915003 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which of the following, present in liver and muscle, is the available glucose storage unit in fish?

1. Glycine
2. Glycogen
3. Sucrose
4. Lipid

Options :

19088959905. 1

19088959906. 2

19088959907. 3

19088959908. 4

Question Number : 103 Question Id : 19088915004 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

An example of branched chain amino acid is

1. Cysteine
2. Glycine
3. Valine
4. Alanine

Options :

19088959909. 1

19088959910. 2

19088959911. 3

19088959912. 4

Question Number : 104 Question Id : 19088915005 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The pentose phosphate pathway is a minor path for synthesis of

1. Ribose and NADP
2. Glucose and ATP
3. Ribose and Sucrose
4. Sucrose and ATP

Options :

19088959913. 1

19088959914. 2

19088959915. 3

19088959916. 4

Question Number : 105 Question Id : 19088915006 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Vitamin B₁₂ is also known as

1. Thiamine
2. Cyanocobalamin
3. Niacin
4. Calciferol

Options :

19088959917. 1

19088959918. 2

19088959919. 3

19088959920. 4

**Question Number : 106 Question Id : 19088915007 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Given below are two statements

Statement I: Quantitative dietary requirement of essential amino acids of fish can be estimated by growth studies.

Statement II: Quantitative dietary requirement of essential amino acids can be estimated by amino acid ratios.

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

1. Both Statement I and Statement II are true
2. Both Statement I and Statement II are false
3. Statement I is true but Statement II is false
4. Statement I is false but Statement II is true

Options :

19088959921. 1

19088959922. 2

19088959923. 3

19088959924. 4

**Question Number : 107 Question Id : 19088915008 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Net protein utilization is also known as

1. Protein availability
2. Gross Protein
3. Digestible protein
4. Protein retention

Options :

19088959925. 1

19088959926. 2

19088959927. 3

19088959928. 4

Question Number : 108 Question Id : 19088915009 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Arachidonic acid is precursor of

1. FSH
2. Prostglandin
3. Domperidone
4. HCG

Options :

19088959929. 1

19088959930. 2

19088959931. 3

19088959932. 4

Question Number : 109 Question Id : 19088915010 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Mineral that is required for the metabolism of vitamin A is

1. Iron
2. Cobalt
3. Zinc
4. Copper

Options :

19088959933. 1

19088959934. 2

19088959935. 3

19088959936. 4

Question Number : 110 Question Id : 19088915011 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The degradative pathways of amino acids, fatty acids and simple sugars all reach a common intermediate compound called

1. Acetyl Coenzyme A
2. Acetaldehyde
3. Pyruvate
4. Triglyceride

Options :

19088959937. 1

19088959938. 2

19088959939. 3

19088959940. 4

Question Number : 111 Question Id : 19088915012 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Which organ plays a major role in directing various nutrients to specific organs and tissues to be metabolized for energy?

1. Brain
2. Pancreas
3. Liver
4. Heart

Options :

19088959941. 1

19088959942. 2

19088959943. 3

19088959944. 4

**Question Number : 112 Question Id : 19088915013 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Apart from being one of the most common substrates for aflatoxicosis, cottonseed also contains a toxic component -

1. Histamine
2. Gossypol
3. Trypsin
4. Mimosine

Options :

19088959945. 1

19088959946. 2

19088959947. 3

19088959948. 4

**Question Number : 113 Question Id : 19088915014 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Dry compressed pellets have several advantages over moist pellets.

- A. Dry pellets do not require frozen storage; room-temperature storage is sufficient for at least 90 days after manufacture
- B. They are expensive than moist pellets on dry weight basis
- C. Demand feeders can be used for feeding
- D. They are not suitable for shrimps

Choose the *correct* answer from the options given below

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

Options :

19088959949. 1

19088959950. 2

19088959951. 3

19088959952. 4

**Question Number : 114 Question Id : 19088915015 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Protein supplements are feed ingredients having a protein content of (as-fed or wet weight basis)

- 1. Above 20%
- 2. Above 30%
- 3. 15-20%
- 4. 10-15%

Options :

19088959953. 1

19088959954. 2

19088959955. 3

19088959956. 4

Question Number : 115 Question Id : 19088915016 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

By convention in animal and fish nutrition, energy feeds CANNOT contain fiber more than

1. 25 %
2. 30 %
3. 18 %
4. 10 %

Options :

19088959957. 1

19088959958. 2

19088959959. 3

19088959960. 4

Question Number : 116 Question Id : 19088915017 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Dark coloration in fish is due to the deficiency of

1. Pantothenic acid
2. Folic acid
3. Niacin
4. Riboflavin

Options :

19088959961. 1

19088959962. 2

19088959963. 3

19088959964. 4

Question Number : 117 Question Id : 19088915018 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

The determination of the sum of all metabolites (other than DNA, RNA or protein) in a biological system is referred as -

1. Nutrigenetics
2. Proteomics
3. Nutrigenomics
4. Metabolomics

Options :

19088959965. 1

19088959966. 2

19088959967. 3

19088959968. 4

**Question Number : 118 Question Id : 19088915019 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Nutrigenomics describes the use of -

1. Functional genomics
2. Static gene
3. Non-functional gene
4. Rational gene

Options :

19088959969. 1

19088959970. 2

19088959971. 3

19088959972. 4

**Question Number : 119 Question Id : 19088915020 Question Type : MCQ Option Shuffling : No
Is Question Mandatory : No**

Correct Marks : 4 Wrong Marks : 1

Gene variation in response to differential responses to nutrients is

1. Metabolomics
2. Nutrionics
3. Nutrigenetics
4. Nutrigenomics

Options :

19088959973. 1

19088959974. 2

19088959975. 3

19088959976. 4

Question Number : 120 Question Id : 19088915021 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Name the tool for analyzing gene expression that consists of a small membrane or glass slide containing samples of many genes arranged in a regular pattern.

1. Southern blot
2. Microarray
3. Western blot
4. PCR

Options :

19088959977. 1

19088959978. 2

19088959979. 3

19088959980. 4