

# National Testing Agency

<b>Question Paper Name :</b>	Fisheries Resource Management 17th September Shift 2
<b>Subject Name :</b>	Fisheries Resource Management
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<b>Display Marks:</b>	Yes

## Fisheries Resource Management

<b>Group Number :</b>	1
<b>Group Id :</b>	190889124
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

## Part A: General Knowledge

<b>Section Id :</b>	190889296
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory

<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889336
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 19088914182 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 :**

- 19088956621. 1
- 19088956622. 2
- 19088956623. 3
- 19088956624. 4

**Question Number : 2 Question Id : 19088914183 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 :**

19088956625. 1

19088956626. 2

19088956627. 3

19088956628. 4

**Question Number : 3 Question Id : 19088914184 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 :**

19088956629. 1

19088956630. 2

19088956631. 3

19088956632. 4

**Question Number : 4 Question Id : 19088914185 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 :**

19088956633. 1

19088956634. 2

19088956635. 3

19088956636. 4

**Question Number : 5 Question Id : 19088914186 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 B<sub>2</sub>?

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

**Options :**

19088956637. 1

19088956638. 2

19088956639. 3

19088956640. 4

**Question Number : 6 Question Id : 19088914187 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 :**

19088956641. 1

19088956642. 2

19088956643. 3

19088956644. 4

**Question Number : 7 Question Id : 19088914188 Question Type : MCQ Op**

**Question Mandatory : No**

**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 :**

19088956645. 1

19088956646. 2

19088956647. 3

19088956648. 4

**Question Number : 8 Question Id : 19088914189 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 :**

19088956649. 1

19088956650. 2

19088956651. 3

19088956652. 4

**Question Number : 9 Question Id : 19088914190 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 :**

19088956653. 1

19088956654. 2

19088956655. 3

19088956656. 4

**Question Number : 10 Question Id : 19088914191 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 :**

19088956657. 1

19088956658. 2

19088956659. 3

19088956660. 4

**Question Number : 11 Question Id : 19088914192 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 :**

19088956661. 1

19088956662. 2

19088956663. 3

19088956664. 4

**Question Number : 12 Question Id : 19088914193 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 :**

19088956665. 1

19088956666. 2

19088956667. 3

19088956668. 4

**Question Number : 13 Question Id : 19088914194 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 :**

19088956669. 1

19088956670. 2

19088956671. 3

19088956672. 4

**Question Number : 14 Question Id : 19088914195 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 :**

19088956673. 1

19088956674. 2

19088956675. 3

19088956676. 4

**Question Number : 15 Question Id : 19088914196 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 :**

19088956677. 1

19088956678. 2

19088956679. 3

19088956680. 4

**Question Number : 16 Question Id : 19088914197 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 :**

19088956681. 1

19088956682. 2

19088956683. 3

19088956684. 4

**Question Number : 17 Question Id : 19088914198 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 :**

19088956685. 1

19088956686. 2

19088956687. 3

19088956688. 4

**Question Number : 18 Question Id : 19088914199 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 :**

19088956689. 1

19088956690. 2

19088956691. 3

19088956692. 4

**Question Number : 19 Question Id : 19088914200 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 :**

19088956693. 1

19088956694. 2

19088956695. 3

19088956696. 4

**Question Number : 20 Question Id : 19088914201 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 :**

19088956697. 1

19088956698. 2

19088956699. 3

19088956700. 4

## Part B Core : Fishery Science-I

**Section Id :** 190889297

**Section Number :** 2

**Section type :** Online

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889337
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 19088914202 Question Type : MCQ Option Shuffling : No**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

Largest river, among Peninsular rivers of India, is

1. Krishna
2. Godavari
3. Narmada
4. Mahanadi

**Options :**

19088956701. 1

19088956702. 2

19088956703. 3

19088956704. 4

**Question Number : 22 Question Id : 19088914203 Question Type : MCQ Option Shuffling : No**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

Maximum landing of shallow-water lobsters is reported from which region of India?

1. Northwest coast
2. Northeast coast
3. Southwest coast
4. Southeast coast

**Options :**

19088956705. 1

19088956706. 2

19088956707. 3

19088956708. 4

**Question Number : 23 Question Id : 19088914204 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is a blue mussel?

1. *Perna viridis*
2. *Perna perna*
3. *Mytilus edulis*
4. *Mytilus californianus*

**Options :**

19088956709. 1

19088956710. 2

19088956711. 3

19088956712. 4

**Question Number : 24 Question Id : 19088914205 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is a useful biological reference point used in fisheries management for describing fish stocks in relation to exploitation?

1. Maximum sustainable yield
2. Maximum biomass
3. Catch per unit effort
4. Yield / Biomass

**Options :**

19088956713. 1

19088956714. 2

19088956715. 3

19088956716. 4

**Question Number : 25 Question Id : 19088914206 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Indian marine fish production (million tonnes) during 2019-20 was

1. 4.41
2. 3.93
3. 3.72
4. 2.81

**Options :**

19088956717. 1

19088956718. 2

19088956719. 3

19088956720. 4

**Question Number : 26 Question Id : 19088914207 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The target organ of ACTH is

1. Interrenal
2. Pituitary
3. Gonads
4. Muscle

**Options :**

19088956721. 1

19088956722. 2

19088956723. 3

19088956724. 4

**Question Number : 27 Question Id : 19088914208 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Crab egg hatches out into

1. Nauplius
2. Protozoa
3. Zoa
4. Megalopa

**Options :**

19088956725. 1

19088956726. 2

19088956727. 3

19088956728. 4

**Question Number : 28 Question Id : 19088914209 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following areas is categorised under CRZ1-B, as per CRZ notification, 2019?

1. Salt marshes
2. Territorial water
3. Intertidal zone
4. Critically vulnerable coastal areas

**Options :**

19088956729. 1

19088956730. 2

19088956731. 3

19088956732. 4

**Question Number : 29 Question Id : 19088914210 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is the major factor for natural mortality in ocean?

1. Predation
2. Old age
3. Disease
4. Spawning stress

**Options :**

19088956733. 1

19088956734. 2

19088956735. 3

19088956736. 4

**Question Number : 30 Question Id : 19088914211 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT a biodiversity hotspot found in India?

1. Western Ghats
2. Sundarban
3. Sundaland
4. Indo-Burman region

**Options :**

19088956737. 1

19088956738. 2

19088956739. 3

19088956740. 4

**Question Number : 31 Question Id : 19088914212 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Neuromast cells in fishes are associated with

1. Nervous system
2. Skeletal system
3. Lateral line system
4. Muscular system

**Options :**

19088956741. 1

19088956742. 2

19088956743. 3

19088956744. 4

**Question Number : 32 Question Id : 19088914213 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Chemicals that are secreted by individuals to induce a certain behaviour response on conspecific individuals are

1. Hormones
2. Pheromones
3. Cytokines
4. Chemokines

**Options :**

19088956745. 1

19088956746. 2

19088956747. 3

19088956748. 4

**Question Number : 33 Question Id : 19088914214 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Process of yolk production and accumulation in a developing oocyte is

1. Oogenesis
2. Anagenesis
3. Vitellogenesis
4. Cytogenesis

**Options :**

19088956749. 1

19088956750. 2

19088956751. 3

19088956752. 4

**Question Number : 34 Question Id : 19088914215 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

About two-third of bivalve resources in brackishwaters of India is comprised of

1. Pearl oysters
2. Edible oysters
3. Clams
4. Mussels

**Options :**

19088956753. 1

19088956754. 2

19088956755. 3

19088956756. 4

**Question Number : 35 Question Id : 19088914216 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

ISO 22000 is a family of

1. Food safety management standards
2. Quality management standards
3. Environmental management standards
4. Health and safety standards

**Options :**

19088956757. 1

19088956758. 2

19088956759. 3

19088956760. 4

**Question Number : 36 Question Id : 19088914217 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Over pressure retort is normally used for sterilization of

1. Pouches
2. Tin cans
3. Glass containers
4. Aluminum cans

**Options :**

19088956761. 1

19088956762. 2

19088956763. 3

19088956764. 4

**Question Number : 37 Question Id : 19088914218 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The deacetylated form of Chitin is known as

1. Chitosan
2. Chitin
3. Hydrolysates
4. Fish proteins

**Options :**

19088956765. 1

19088956766. 2

19088956767. 3

19088956768. 4

**Question Number : 38 Question Id : 19088914219 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Head quarters of FSSAI is located at

1. New Delhi
2. Cochin
3. Chennai
4. Mumbai

**Options :**

19088956769. 1

19088956770. 2

19088956771. 3

19088956772. 4

**Question Number : 39 Question Id : 19088914220 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Common quality defect in frozen fish is

1. Drip loss
2. Black spot formation
3. Thaw drip
4. Meat disintegration

**Options :**

19088956773. 1

19088956774. 2

19088956775. 3

19088956776. 4

**Question Number : 40 Question Id : 19088914221 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is bio-preservative that can be used in the preservation of fish sausage?

1. Antibiotics
2. Bacteriocin
3. Bacitracin
4. Nitrosamines

**Options :**

19088956777. 1

19088956778. 2

19088956779. 3

19088956780. 4

**Question Number : 41 Question Id : 19088914222 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Major bacterial flora dominated in marine fish is

1. Gram negative bacteria
2. Gram positive bacteria
3. Yeasts
4. Moulds

**Options :**

19088956781. 1

19088956782. 2

19088956783. 3

19088956784. 4

**Question Number : 42 Question Id : 19088914223 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The organism which is a fecal contamination indicator is

1. *E.coli*
2. Vibrios
3. Salmonella
4. Listeria

**Options :**

19088956785. 1

19088956786. 2

19088956787. 3

19088956788. 4

**Question Number : 43 Question Id : 19088914224 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Sun spoilage is very common in

1. Salted and dried fish
2. Freeze dried fish
3. Frozen fish
4. Smoked fish

**Options :**

19088956789. 1

19088956790. 2

19088956791. 3

19088956792. 4

**Question Number : 44 Question Id : 19088914225 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Masmeen is associated with which of the following?

1. Tuna
2. Seer fish
3. Crabs
4. Squids

**Options :**

19088956793. 1

19088956794. 2

19088956795. 3

19088956796. 4

**Question Number : 45 Question Id : 19088914226 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Hardswell spoilage is commonly associated with

1. Frozen fish
2. Canned fish
3. Smoked fish
4. Dried fish

**Options :**

19088956797. 1

19088956798. 2

19088956799. 3

19088956800. 4

**Question Number : 46 Question Id : 19088914227 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

HEPA filter is commonly found in

1. Laminar flow chamber
2. Waterbath
3. Incubator
4. Hot air oven

**Options :**

19088956801. 1

19088956802. 2

19088956803. 3

19088956804. 4

**Question Number : 47 Question Id : 19088914228 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Commonly used solidifying medium in microbiological media preparation is

1. Agarose
2. Carragenan
3. Peptone
4. Agar

**Options :**

19088956805. 1

19088956806. 2

19088956807. 3

19088956808. 4

**Question Number : 48 Question Id : 19088914229 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The father of canning is

1. N. Appert
2. Peter Durand
3. Ames
4. John Needham

**Options :**

19088956809. 1

19088956810. 2

19088956811. 3

19088956812. 4

**Question Number : 49 Question Id : 19088914230 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Fish is called as frozen when the temperature of fish is reduced to

1.  $-20^{\circ}\text{C}$
2.  $-10^{\circ}\text{C}$
3.  $-1^{\circ}\text{C}$
4.  $-5^{\circ}\text{C}$

**Options :**

19088956813. 1

19088956814. 2

19088956815. 3

19088956816. 4

**Question Number : 50 Question Id : 19088914231 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Fish maws is prepared from

1. Air bladder
2. Shark skin
3. Shark fins
4. Fish scales

**Options :**

19088956817. 1

19088956818. 2

19088956819. 3

19088956820. 4

**Question Number : 51 Question Id : 19088914232 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The most commonly used direct system for denoting the size of the yarn is

1. Tex system
2. Denier system
3. British system
4. Metric system

**Options :**

19088956821. 1

19088956822. 2

19088956823. 3

19088956824. 4

**Question Number : 52 Question Id : 19088914233 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following floats is made of low-density materials?

1. Thermocole
2. Glass
3. Aluminium
4. Steel

**Options :**

19088956825. 1

19088956826. 2

19088956827. 3

19088956828. 4

**Question Number : 53 Question Id : 19088914234 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Pump fishing is popular for which group of shellfish?

1. Squids
2. Shrimps
3. Clams
4. Oysters

**Options :**

19088956829. 1

19088956830. 2

19088956831. 3

19088956832. 4

**Question Number : 54 Question Id : 19088914235 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Dol net is more popular in the State of

1. Maharastra
2. Kerala
3. Odissa
4. Karnataka

**Options :**

19088956833. 1

19088956834. 2

19088956835. 3

19088956836. 4

**Question Number : 55 Question Id : 19088914236 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In Kiln seasoning, in order to remove the moisture, the timber is exposed to

1. Cold air
2. Hot water
3. Hot air
4. Cold water

**Options :**

19088956837. 1

19088956838. 2

19088956839. 3

19088956840. 4

**Question Number : 56 Question Id : 19088914237 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following preservatives is more effective to preserve timber?

1. Oil type
2. Waterborne type
3. Organic solvent type
4. Mixture of element

**Options :**

19088956841. 1

19088956842. 2

19088956843. 3

19088956844. 4

**Question Number : 57 Question Id : 19088914238 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The FRP boat was first introduced in India during the year

1. 1947
2. 1968
3. 1977
4. 1978

**Options :**

19088956845. 1

19088956846. 2

19088956847. 3

19088956848. 4

**Question Number : 58 Question Id : 19088914239 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The farthest distant part from the stem of a boat is called as

1. Stem
2. Stem
3. LOA
4. LBP

**Options :**

19088956849. 1

19088956850. 2

19088956851. 3

19088956852. 4

**Question Number : 59 Question Id : 19088914240 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The measure of ship capacity is denoted as

1. Tonnage
2. Displacement
3. Density
4. Dead weight

**Options :**

19088956853. 1

19088956854. 2

19088956855. 3

19088956856. 4

**Question Number : 60 Question Id : 19088914241 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The fishing gear most commonly used to catch Bombay duck fishery along the Maharashtra coast is

1. Rampani
2. Chinese dip net
3. Dol net
4. Trawler

**Options :**

19088956857. 1

19088956858. 2

19088956859. 3

19088956860. 4

**Question Number : 61 Question Id : 19088914242 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Complete dissociation of chromatin material in the nucleus is termed as

1. Karyorrhexis
2. Karyolysis
3. Pyknosis
4. Neucleolysis

**Options :**

19088956861. 1

19088956862. 2

19088956863. 3

19088956864. 4

**Question Number : 62 Question Id : 19088914243 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Nephelometer is used to measure

1. Dissolved oxygen
2. Carbon Dioxide
3. pH
4. Turbidity

**Options :**

19088956865. 1

19088956866. 2

19088956867. 3

19088956868. 4

**Question Number : 63 Question Id : 19088914244 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



Monocytes differentiate into which kind of phagocytic cells?

1. Neutrophils
2. Basophils
3. Macrophages
4. T Cell

**Options :**

19088956869. 1

19088956870. 2

19088956871. 3

19088956872. 4

**Question Number : 64 Question Id : 19088914245 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which one belongs to crustacean parasite in fish?

1. *Ichthyophthirus*
2. *Ichthyobodo*
3. *Myxobolous*
4. *Argulus*

**Options :**

19088956873. 1

19088956874. 2

19088956875. 3

19088956876. 4

**Question Number : 65 Question Id : 19088914246 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Gas bubble disease is associated with

1. Nitrogen & Oxygen
2. Nitrogen & Hydrogen
3. Oxygen & Hydrogen
4. Hydrogen Sulphide

**Options :**

19088956877. 1

19088956878. 2

19088956879. 3

19088956880. 4

**Question Number : 66 Question Id : 19088914247 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Programmed cell death is called

1. Necrosis
2. Apoptosis
3. Pyknosis
4. Karyolysis

**Options :**

19088956881. 1

19088956882. 2

19088956883. 3

19088956884. 4

**Question Number : 67 Question Id : 19088914248 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Increase in concentration of chemical substance along the trophic level of food chain is called

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

**Options :**

19088956885. 1

19088956886. 2

19088956887. 3

19088956888. 4

**Question Number : 68 Question Id : 19088914249 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Toxin responsible for Diarrhoetic shellfish poisoning is

1. Saxitoxin
2. Brevetoxin
3. Okadaic acid
4. Domoic acid

**Options :**

19088956889. 1

19088956890. 2

19088956891. 3

19088956892. 4

**Question Number : 69 Question Id : 19088914250 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Average lapse rate in troposphere is

1. 6.4 °C /Km
2. 7.4 °C /Km
3. 8.4 °C /Km
4. 5.4 °C /Km

**Options :**

19088956893. 1

19088956894. 2

19088956895. 3

19088956896. 4

**Question Number : 70 Question Id : 19088914251 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Interspecific relationship where one species suffers and other species experiences no effect is

1. Commensalism
2. Ammensalism
3. Mutualism
4. Predation

**Options :**

19088956897. 1

19088956898. 2

19088956899. 3

19088956900. 4

## **Part C : Fisheries Resource Management**

**Section Id :** 190889298

**Section Number :** 3

**Section type :** Online

**Mandatory or Optional :** Mandatory

<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889338
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 71 Question Id : 19088914252 Question Type : MCQ Option Shuffling : No**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

Which of the following is based on the cohort concept?

1. Swept area method
2. Surplus production model
3. Virtual population analysis
4. Virgin stock model

**Options :**

19088956901. 1

19088956902. 2

19088956903. 3

19088956904. 4

**Question Number : 72 Question Id : 19088914253 Question Type : MCQ Option Shuffling : No**  
**Is Question Mandatory : No**  
**Correct Marks : 4 Wrong Marks : 1**

The River Cauvery originates from

1. Mahabaleswar hills
2. Brahmagiri hills
3. Sihava hills
4. Vidhya mountain

**Options :**

19088956905. 1

19088956906. 2

19088956907. 3

19088956908. 4

**Question Number : 73 Question Id : 19088914254 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following reservoirs is situated in Andhra Pradesh?

1. Bhavanisagar
2. Gandhisagar
3. Gobindasagar
4. Nagarjunasagar

**Options :**

19088956909. 1

19088956910. 2

19088956911. 3

19088956912. 4

**Question Number : 74 Question Id : 19088914255 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Large pelagic fishes such as tuna and seerfishes are mainly caught by

1. Gill net
2. Trawl net
3. Purse seine
4. Dol net

**Options :**

19088956913. 1

19088956914. 2

19088956915. 3

19088956916. 4

**Question Number : 75 Question Id : 19088914256 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is the group of marine algae with maximum species diversity in India?

1. Xanthophyceae
2. Chlorophyceae
3. Phaeophyceae
4. Rhodophyceae

**Options :**

19088956917. 1

19088956918. 2

19088956919. 3

19088956920. 4

**Question Number : 76 Question Id : 19088914257 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which one of the following is NOT under the category of IUCN red list?

1. Least Concern
2. Rare
3. Extinct in the wild
4. Data deficient

**Options :**

19088956921. 1

19088956922. 2

19088956923. 3

19088956924. 4

**Question Number : 77 Question Id : 19088914258 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In fish stock assessment, von Bertalanffy growth parameters are used as

1. Indicators
2. Biological reference points
3. Technical reference points
4. Intermediate parameters

**Options :**

19088956925. 1

19088956926. 2

19088956927. 3

19088956928. 4

**Question Number : 78 Question Id : 19088914259 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Moulting hormone in shrimp is secreted by

1. X-organ
2. Y-organ
3. Mandibular organ
4. Sinus gland

**Options :**

19088956929. 1

19088956930. 2

19088956931. 3

19088956932. 4

**Question Number : 79 Question Id : 19088914260 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



A predator's preference for prey is described by

1. Forage ratio
2. Index of electivity
3. Simpson's index
4. Omnivory index

**Options :**

19088956933. 1

19088956934. 2

19088956935. 3

19088956936. 4

**Question Number : 80 Question Id : 19088914261 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Radula is found in all three of the following group of molluscs **except**

1. Gastropods
2. Cephalopods
3. Bivalves
4. Polyplacophora

**Options :**

19088956937. 1

19088956938. 2

19088956939. 3

19088956940. 4

**Question Number : 81 Question Id : 19088914262 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

MARPOL is aimed at prevention of

1. Pollution from mariculture
2. Pollution from ships
3. Air pollution
4. Sand pollution

**Options :**

19088956941. 1

19088956942. 2

19088956943. 3

19088956944. 4

**Question Number : 82 Question Id : 19088914263 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Catching of too many young fishes from the stock leads to

1. Underfishing
2. Growth overfishing
3. Recruitment overfishing
4. Eumetric overfishing

**Options :**

19088956945. 1

19088956946. 2

19088956947. 3

19088956948. 4

**Question Number : 83 Question Id : 19088914264 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Large number of mechanized fishing crafts are operated in the State of

1. Kerala
2. West Bengal
3. Gujarat
4. Tamil Nadu

**Options :**

19088956949. 1

19088956950. 2

19088956951. 3

19088956952. 4

**Question Number : 84 Question Id : 19088914265 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
A. Mud spiny lobster	I. <i>Panulirus penicillatus</i>
B. Scalloped spiny lobster	II. <i>Panulirus versicolor</i>
C. Proghorn spiny lobster	III. <i>Panulirus polyphagus</i>
D. Painter lobster	IV. <i>Panulirus homarus</i>

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

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

**Options :**

19088956953. 1

19088956954. 2

19088956955. 3

19088956956. 4

**Question Number : 85 Question Id : 19088914266 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT categorised as critically vulnerable coastal areas in the CRZ Notification, 2019?

1. Sundarban
2. Chilika Lake
3. Vembanad Lake
4. Gulf of Mannar

**Options :**

19088956957. 1

19088956958. 2

19088956959. 3

19088956960. 4

**Question Number : 86 Question Id : 19088914267 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following groups form dominant fishery along the South West coast?

- A. Silver bellies
- B. Carangids
- C. Non-penaeid prawns
- D. Indian mackerel
- E. White baits

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

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

**Options :**

19088956961. 1

19088956962. 2

19088956963. 3

19088956964. 4

**Question Number : 87 Question Id : 19088914268 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following stage of *Penaeus monodon* is found in the estuarine region?

1. Nauplius
2. Protozoa
3. Mysis
4. Juvenile

**Options :**

19088956965. 1

19088956966. 2

19088956967. 3

19088956968. 4

**Question Number : 88 Question Id : 19088914269 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
A. Purse seine	I. Hilsa shad
B. Aerial trap	II. Indian oil sardine
C. Fish wheel	III. Mullet
D. Clap nets	IV. Salmon

Choose the correct answer from the options given below:

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

**Options :**

19088956969. 1

19088956970. 2

19088956971. 3

19088956972. 4

**Question Number : 89 Question Id : 19088914270 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Choose the gastropods among the following groups of animals

A. Periwinkles

B. Scallops

C. Whelks

D. Abalones

E. Cockles

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

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

**Options :**

19088956973. 1

19088956974. 2

19088956975. 3

19088956976. 4

**Question Number : 90 Question Id : 19088914271 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Maximum species of sponges in India are distributed in

1. Gulf of Mannar and Palk Bay
2. Andaman & Nicobar Islands
3. Lakshadweep
4. Gulf of Kutch

**Options :**

19088956977. 1

19088956978. 2

19088956979. 3

19088956980. 4

**Question Number : 91 Question Id : 19088914272 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Baleen plates present in whales are known to play an important role in

1. Buoyancy
2. Respiration
3. Filter feeding
4. Osmoregulation

**Options :**

19088956981. 1

19088956982. 2

19088956983. 3

19088956984. 4

**Question Number : 92 Question Id : 19088914273 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which part of the body of a gastropod undergoes twisting process of torsion?

1. Foot
2. Mantle
3. Visceral mass
4. Gonad

**Options :**

19088956985. 1

19088956986. 2

19088956987. 3

19088956988. 4

**Question Number : 93 Question Id : 19088914274 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**



The target organ of Somatostatin is

1. Kidney
2. Pituitary
3. Gills
4. Muscles

**Options :**

19088956989. 1

19088956990. 2

19088956991. 3

19088956992. 4

**Question Number : 94 Question Id : 19088914275 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Modified arm found in cuttlefish used to transfer spermatophore is

1. Beak
2. Needham's sac
3. Myxopterygium
4. Hectocotylus

**Options :**

19088956993. 1

19088956994. 2

19088956995. 3

19088956996. 4

**Question Number : 95 Question Id : 19088914276 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

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

<b>List I</b>	<b>List II</b>
A. The River Ganga	I. Lohit
B. The River Brahmaputra	II. Varuna
C. The River Mahanadi	III. Manjira
D. The River Godavari	IV. Seonath

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

**Options :**

19088956997. 1

19088956998. 2

19088956999. 3

19088957000. 4

**Question Number : 96 Question Id : 19088914277 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Arrange the following podomeres of a typical appendage starting from the distal end to the proximal end of protopodite

- A. Propodus
- B. Ischium
- C. Merus
- D. Dactylus
- E. Carpus

Choose the *correct* answer from the options given below

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

**Options :**

19088957001. 1

19088957002. 2

19088957003. 3

19088957004. 4

**Question Number : 97 Question Id : 19088914278 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I:** The Devonian period is called Age of Fishes.

**Statement II:** The first fish appeared on the earth was during the Devonian period.

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 :**

19088957005. 1

19088957006. 2

19088957007. 3

19088957008. 4

**Question Number : 98 Question Id : 19088914279 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Presence of a sucking disc with 10-28 transeverse movable laminae is the striking taxonomic feature of

1. Rachycentridae
2. Echeneidae
3. Catastomidae
4. Sphymidae

**Options :**

19088957009. 1

19088957010. 2

19088957011. 3

19088957012. 4

**Question Number : 99 Question Id : 19088914280 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The prominent characteristic of first larval stage of *Macrobrachium rosenbergii* is

1. Uropod
2. Sessile eye
3. Pleopod
4. Epigastric teeth on the rostrum

**Options :**

19088957013. 1

19088957014. 2

19088957015. 3

19088957016. 4

**Question Number : 100 Question Id : 19088914281 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What is the natural mortality rate of fish, if exploitation ratio is 0.6 and total mortality rate is 3.0 per year?

1. 1.5 per year
2. 1.2 per year
3. 0.9 per year
4. 0.6 per year

**Options :**

19088957017. 1

19088957018. 2

19088957019. 3

19088957020. 4

**Question Number : 101 Question Id : 19088914282 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

The ratio of number of actual links to the number of possible links in a given food web is called

1. Ivlev's index
2. Cycling index
3. Connectance index
4. Omnivory index

**Options :**

19088957021. 1

19088957022. 2

19088957023. 3

19088957024. 4

**Question Number : 102 Question Id : 19088914283 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is taken as equivalent to total mortality in ECOPATH?

1. Biomass/Production
2. Production/Biomass
3. Biomass/Consumption
4. Consumption/Biomass

**Options :**

19088957025. 1

19088957026. 2

19088957027. 3

19088957028. 4

**Question Number : 103 Question Id : 19088914284 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

For international navigation, straits located in the territorial waters of the coastal state are used, which are called as

1. Transit passage
2. Innocent passage
3. Territorial passage
4. Transboundary passage

**Options :**

19088957029. 1

19088957030. 2

19088957031. 3

19088957032. 4

**Question Number : 104 Question Id : 19088914285 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Arrange the following chronologically starting from the earliest to the latest

- A. Coastal Aquaculture Authority Act
- B. Environment Protection Act
- C. The Maritime Zones Of India (Regulation Of Fishing By Foreign Vessels) Act
- D. National Policy On Fisheries
- E. UNCLOS

Choose the *correct* answer from the options given below

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

**Options :**

19088957033. 1

19088957034. 2

19088957035. 3

19088957036. 4

**Question Number : 105 Question Id : 19088914286 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Given below are two statements

**Statement I:** If the fishing effort on predator is increased, the yield of prey is decreased.

**Statement II:** If the fishing effort on prey is increased, the yield of predator is decreased.

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 :**

19088957037. 1

19088957038. 2

19088957039. 3

19088957040. 4

**Question Number : 106 Question Id : 19088914287 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is applicable to Blockchain?

1. A distributed ledger on a peer-to-peer network
2. An exchange
3. Cold chain from fish harvest to consumer
4. A distributed ledger on a product-to-product network

**Options :**

19088957041. 1

19088957042. 2

19088957043. 3

19088957044. 4

**Question Number : 107 Question Id : 19088914288 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

In CRZ-IIIB, the area up to what distance (meters) from the HTL on the landward side shall be earmarked as the ' No Development Zone'?

1. 50
2. 100
3. 200
4. 500

**Options :**

19088957045. 1

19088957046. 2

19088957047. 3



19088957048. 4

**Question Number : 108 Question Id : 19088914289 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which is the Indian State with the highest number of district-level fishery cooperatives?

1. Bihar
2. Maharashtra
3. Andhra Pradesh
4. Kerala

**Options :**

19088957049. 1

19088957050. 2

19088957051. 3

19088957052. 4

**Question Number : 109 Question Id : 19088914290 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which species of lobster occupies the upper continental slope in Indian waters?

1. *Panulirus homarus*
2. *Panulirus polyphagus*
3. *Thenus orientalis*
4. *Puerulus sewelli*

**Options :**

19088957053. 1

19088957054. 2

19088957055. 3

19088957056. 4

**Question Number : 110 Question Id : 19088914291 Question Type : MCQ C**



**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

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

List I	List II
A. Green turtle	I. Odisha
B. Hawksbill	II. Gulf of Mannar
C. Loggerhead	III. Andaman & Nicobar
D. Olive Ridely	IV. Gujarat

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

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

**Options :**

19088957057. 1

19088957058. 2

19088957059. 3

19088957060. 4

**Question Number : 111 Question Id : 19088914292 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

*Mytella strigata*, an alien species of mussel established in Kerala backwaters is native to

1. Central and South America
2. North America
3. Africa
4. China

**Options :**

19088957061. 1

19088957062. 2

19088957063. 3

19088957064. 4

**Question Number : 112 Question Id : 19088914293 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is NOT an Octocorallia?

1. Blue coral
2. Sea pen
3. Horny coral
4. Staghorn coral

**Options :**

19088957065. 1

19088957066. 2

19088957067. 3

19088957068. 4

**Question Number : 113 Question Id : 19088914294 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 :** Typically, fish body shape is streamlined.

**Reason R :** Streamline line body reduces the friction of movement to a minimum thus reducing overall drag.

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 :**

19088957069. 1

19088957070. 2

19088957071. 3

19088957072. 4

**Question Number : 114 Question Id : 19088914295 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Pterins are present in

A. Melanophores

B. Xanthophores

C. Iridophores

D. Erythrophores

E. Leucophores

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

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

**Options :**

19088957073. 1

19088957074. 2

19088957075. 3

19088957076. 4

**Question Number : 115 Question Id : 19088914296 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

*Orcaella brevirostris* is a flagship species of

1. Chilika Lake
2. Vembanad Lake
3. Dal Lake
4. Pulicat Lake

**Options :**

19088957077. 1

19088957078. 2

19088957079. 3

19088957080. 4

**Question Number : 116 Question Id : 19088914297 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

What is the value of the Red List Index (RLI) for all species which qualify as Least Concern?

1. Zero
2. 0.5
3. 1.0
4. Infinity

**Options :**

19088957081. 1

19088957082. 2

19088957083. 3

19088957084. 4

**Question Number : 117 Question Id : 19088914298 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Which of the following is used as a technical reference point in fisheries management?

1.  $Bt$
2.  $F_{now}$
3.  $F_{0.1}$
4.  $f_{now}$

**Options :**

19088957085. 1

19088957086. 2

19088957087. 3

19088957088. 4

**Question Number : 118 Question Id : 19088914299 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

All species threatened with extinction are included in which Appendix of CITES?

1. Appendix I
2. Appendix II
3. Appendix III
4. Appendix IV

**Options :**

19088957089. 1

19088957090. 2

19088957091. 3

19088957092. 4

**Question Number : 119 Question Id : 19088914300 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 4 Wrong Marks : 1**

Vulnerability analysis should be carried out in which part of the Disaster Management Cycle?

1. Mitigation
2. Preparedness
3. Rehabilitation
4. Recovery

**Options :**

19088957093. 1

19088957094. 2

19088957095. 3

19088957096. 4

**Question Number : 120 Question Id : 19088914301 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
A. Keystone species	I. Pollution
B. Flagship species	II. Influence structure and function of ecological community
C. Indicator species	III. Species selected for conservation
D. Umbrella species	IV. Ambassador species for an environmental cause

Choose the correct answer from the options given below:

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

**Options :**

19088957097. 1

19088957098. 2

19088957099. 3

19088957100. 4