PROVISIONAL ANSWER KEY

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Question1:-Male sharks are claspers for mating. These structures are modified

A:-Anal fins

B:-Pelvic fins

C:-GC

D:-Gills

Correct Answer:- Option-B

Question2:-When was the National Biodiversity Board established by the Government of India ?

A:-1990

B:-2000

C:-2003

D:-2020

Correct Answer:- Option-C

Question3:-Which is the dominant habitat in most tropical estuaries ?

A:-Lagoons

B:-Mangroves

C:-Sand bars

D:-Corals

Correct Answer:- Option-B

Question4:-When an individual of a given species possesses both male and female reproductive organs, or converts from one sex to the other during its lifehistory, it is called a

A:-Hermaphrodite

B:-Unisexual

C:-Polygamous

D:-Gonochorist

Correct Answer:- Option-A

Question5:-Oral incubation of eggs and embryos in fish is termed

A:-Mouthbrooding

B:-Spawning

C:-External fertilisation

D:-Hibernation

Correct Answer:- Option-A

Question6:-Paralytic Shellfish Poisoning (PSP) is commonly associated with

A:-Shrimps

B:-Crabs

C:-Bivalve molluscs

D:-Lobsters

Correct Answer:- Option-C

Question7:-Osmoconformers are marine invertebrates that can

A:-Maintain body fluid concentration far above seawater

B:-Keep body fluid osmotic concentration equal to seawater

C:-Actively dilute body fluids to freshwater levels

D:-Excrete only solid nitrogenous waste

Correct Answer:- Option-B

Question8:-Starfish, brittle stars, sea urchin, sea cucumbers, sea lilies and sand dollars are collectively called

A:-Coelenterates

B:-Crustaceans

C:-Echinoderms

D:-Molluscs

Correct Answer:- Option-C

Question9:-The branch of zoology dealing with fish is called

A:-Pisciology

B:-Ichthyology

C:-Taxonomy

D:-Marine biology

Correct Answer:- Option-B

Question10:-The earliest development instar of crustaceans is

A:-Cnidaria

B:-Nauplius

C:-Zoea

D:-Megalopa

Correct Answer:- Option-B

Question11:-As per IUCN, which one of the following fish is endangered in India ?

A:-*Epinephelus malabaricus*

B:-*Devario malabaricus*

C:-*Lutjanus malabaricus*

D:-*Tor malabaricus*

Correct Answer:- Option-D

Question12:-Which one of the following is not a Ramsar site ?

A:-Chilika lake

B:-Loktak lake

C:-Vembanad lake

D:-Pulicat lake

Correct Answer:- Option-D

Question13:-Indian's current marine fish landings are

A:-Below MSY

B:-Above MSY

C:-Equal to MSY

D:-None of the above

Correct Answer:- Option-A

Question14:-Which is the most landed fish in India as per the latest data ?

A:-Indian oil sardine

B:-Indian mackerel

C:-Yellowfin tuna

D:-Skipjack tuna

Correct Answer:- Option-B

Question15:-Among the following, which is the most prevalent fishing gear in the riverine fishery of India ?

A:-Gillnet

B:-Seine net

C:-Chinese dipnet

D:-Bagnet

Correct Answer:- Option-A

Question16:-Select the most abundant seaweeds in Indian coast.

A:-Red seaweed

B:-Green seaweed

C:-Brown seaweed

D:-Grey seaweed

Correct Answer:- Option-C

Question17:-India’s first MSC certified fishery is

A:-Hilsa fishery of Hooghly estuary

B:-Short-neck clam fishery of Ashtamudi lake

C:-Mud crab fishery of Sundarbans

D:-Oil sardine fishery of Beypore

Correct Answer:- Option-B

Question18:-Murrel population in the wetlands of Kerala is decreasing because of

A:-Illegal trap fishing

B:-Less monsoon

C:-Excess weed infestation

D:-Habitat degradation

Correct Answer:- Option-D

Question19:-Select the best management practice to improve fish production in reservoirs.

A:-Stock enhancement practices

B:-Increase fishing effort

C:-Adoption of bycatch reduction devices

D:-Stocking of exotic fishes

Correct Answer:- Option-A

Question20:-Sport fishing in India is practiced using

A:-Monofilament gillnets

B:-Collapsible fish traps

C:-Angling set

D:-Selective trawl nets

Correct Answer:- Option-C

Question21:-Which one is not dragged gear ?

A:-Sweep Net

B:-Bottom Trawl

C:-Scrape Net

D:-Midwater Trawl

Correct Answer:- Option-C

Question22:-The CIFT V-form double slotted otter boards is developed for

A:-Trawl fishery

B:-Purse seiner

C:-Passive gear

D:-Gill netter

Correct Answer:- Option-A

Question23:-Find out the odd one

A:-Plankbuilt boat

B:-Masula boat

C:-Catamaran

D:-Trawler

Correct Answer:- Option-D

Question24:-The scientific name of orange spotted grouper whose package of practice for seed production and farming developed by CMFRI, Kochi is

A:-*Epinephelus morio*

B:-*Epinephelus coioides*

C:-*Epinephelus malabaricus*

D:-*Epinephelus lanceolatus*

Correct Answer:- Option-B

Question25:-Which type of cut is not used to shape the netting ?

A:-B-cut

B:-T-cut

C:-O-cut

D:-N-cut

Correct Answer:- Option-C

Question26:-What is the correct sequence of the formation of pyrite in the culture ponds ?
i. The interaction between ferrous and ferric iron with the sulphide and elemental sulphur
ii. The bacterial reduction of sulphate to sulphide
iii. Partial oxidation of the sulphide to elemental sulphur

Choose the correct answer from the options given below :

A:-iii, i and ii

B:-iii, ii and i

C:-ii, iii and i

D:-ii, i and iii

Correct Answer:- Option-C

Question27:-What type of aquaculture best describes the use of the byproducts, including waste, from one aquatic species as inputs for another ?

A:-Cage culture

B:-Integrated multi-trophic aquaculture

C:-Composite culture

D:-Polyculture

Correct Answer:- Option-B

Question28:-*Ipomoea* is a

A:-Floating weed

B:-Submerged weed

C:-Marginal weed

D:-Emergent weed

Correct Answer:- Option-C

Question29:-The main principle of biofloc technology is

A:-Supplementary feeding

B:-To increase the phytoplankton production

C:-To reduce the algal bloom

D:-Nutrient recycling through the enhancement of the carbon-to-nitrogen ratio

Correct Answer:- Option-D

Question30:-Which of the following statements are incorrect about eutrophicated water ?

i. Its surface water is rich with plant nutrients
ii. It is oxygen rich
iii. It can lead to algal bloom
iv. High water transparency

Choose the correct answer from the options given below :

A:-ii, iii and iv

B:-ii and iv

C:-ii and iii

D:-i, ii and iv

Correct Answer:- Option-B

Question31:-Which of the following has relatively higher nitrogen content among them ?

A:-Poultry manure

B:-Cow dung

C:-Pig manure

D:-Compost

Correct Answer:- Option-A

Question32:-Organism that helps to reduce ammonia load in a bio-filter

A:-*Aeromonas*

B:-*Nitrosomonas*

C:-*Bacillus*

D:-*Rhizobium*

Correct Answer:- Option-B

Question33:-Maximum recommended (as per CAA) stocking density for culture of *Penaeus vannamei* in freshwater/inland farms

A:-30 nos/m^2

B:-45 nos/m^2

C:-60 nos/m^2

D:-75 nos/m^2

Correct Answer:- Option-C

Question34:-Mullets are best described as

A:-Carnivores

B:-Pig manure

C:-Omnivore filter feeders

D:-Herbivore filter feeders

Correct Answer:- Option-C

Question35:-

Consider the following sentences

Statement (1) : Unionized hydrogen sulphide is toxic to fish.

Statement (2) : The ions resulting from dissociation of hydrogen sulphide are more toxic than unionized ammonia.

Choose the correct answer from the options given below :

A:-Statement (1) is true but Statement (2) is false

B:-Statement (1) is false but Statement (2) is true

C:-Both Statement (1) and Statement (2) are true

D:-Both Statement (1) and Statement (2) are false

Correct Answer:- Option-A

Question36:-The process of adding essential nutrients to contaminated sites to enhance the natural biodegradation capacity of indigenous microorganisms is termed as

A:-Bioaugmentation

B:-Bioconcentration

C:-Bioprospecting

D:-Biostimulation

Correct Answer:- Option-D

Question37:-'*Jayanti*' is a what type of variety of fish ?

A:-Genetically modified rohu

B:-Genetically improved rohu

C:-Genetically modified catla

D:-Genetically improved catla

Correct Answer:- Option-B

Question38:-Which among the following is the most widely cultured coldwater fish species in India ?

A:-Indian salmon

B:-Indian trout

C:-Brook trout

D:-Rainbow trout

Correct Answer:- Option-D

Question39:-The optimum soil organic carbon required in shrimp ponds is

A:-0.5 – 1.0%

B:-1.5 – 2.0%

C:-2.5 – 3.0%

D:-3.0 – 3.5%

Correct Answer:- Option-B

Question40:-What happens to hydrogen ion concentration when CO_2 levels rise in water ?

A:-$[H^+]$ decreases and increases the pH

B:-$[H^+]$ increases and lowers the pH

C:-$[H^+]$ decreases and increases lowers the pH

D:-$[H^+]$ remains constant

Correct Answer:- Option-B

Question41:-When calculating the mooring grid design for a battery of open-sea floating cages, the primary force component responsible for structural displacement and tension stress on the anchor lines is

A:-Hydrostatic pressure of the deep-water column

B:-Hydrodynamic drag force caused by the combination of peak tidal currents and wave action

C:-Atmospheric barometric pressure changes

D:-Vertical buoyancy vector of the surface brackets alone

Correct Answer:- Option-B

Question42:-In a Recirculating Aquaculture System (RAS), the primary function of a biofilter is to facilitate the biological conversion of

A:-Nitrate to Nitrite

B:-Nitrogen gas to Ammonium

C:-Nitrate to Ammonia gas

D:-Ammonia to Nitrite and then to Nitrate ions

Correct Answer:- Option-D

Question43:-Why is a degassing column essential in intensive RAS operations ?

A:-To strip out excess dissolved Carbon Dioxide (CO_2) accumulated from fish respiration

B:-To introduce toxic levels of methane

C:-To eliminate all dissolved oxygen

D:-To increase the absolute water hardness

Correct Answer:- Option-A

Question44:-To minimize structural damage and prevent fish escape during an impending severe marine storm or cyclonic event, modern offshore aquaculture operations utilize which specialized cage technology ?

A:-Rigid shore-anchored concrete raceway cages

B:-Submersible or submersible-tension leg cage systems

C:-Lightweight bamboo-framed surface enclosures

D:-Completely sealed airtight plastic boxes

Correct Answer:- Option-B

Question45:-What is the primary technical advantages of using an ‘Extruder’ over a standard ‘Pellet Mill’ for manufacturing modern fish feeds ?

A:-Extruders consume significantly less electrical energy

B:-Extruders cannot process plant-based raw ingredients

C:-Extrusion cooking allows precise control over pellet buoyancy (making floating, sinking, or slow-sinking feeds)

D:-Extruded feeds have shorter shelf lives

Correct Answer:- Option-C

Question46:-Why is a “Vacuum Coater” utilized in modern high-energy fish feed processing ?

A:-To suck out all moisture from the pellet interior

B:-To crush oversized pellets into crumbles

C:-To seal the bags under airtight vacuum pressure

D:-To force high levels of liquid lipids/oils deep into the micro-pores of extruded pellets

Correct Answer:- Option-D

Question47:-Carps lack a true structural stomach with acid secretion. How does this anatomical feature influence their feeding behaviour and feed management ?

A:-They benefit more from frequent, small-quantity feeding sessions rather than single large daily meals

B:-They must be fed huge single meals once a week

C:-They cannot digest any proteins

D:-They only feed during midnight

Correct Answer:- Option-A

Question48:-Which fatty acids are uniquely essential for marine carnivorous fish and must be provided via marine lipids (fish oil) ?

A:-Linoleic acid (18:2n-6)

B:-Oleic acid (18:1n-9)

C:-Eicosapentaenoic Acid (EPA, 20:5n-3) and Docosahexaenoic Acid (DHA, 22:6n-3)

D:-Palmitic acid (16:0)

Correct Answer:- Option-C

Question49:-What role does Cholesterol play in the formulation of feeds for penaeid shrimp ?

A:-It is used purely as a cheap filler matrix

B:-It is an essential nutrient required for physiological moulting, cell membranes and hormone synthesis, as shrimp cannot synthesize it de novo

C:-It serves to lower the feed cost

D:-

It turns the pellet into a floating feed

Correct Answer:- Option-B

Question50:-In marine cage culture of carnivorous fish like Asian Seabass (*Lates calcarifer*), “shooting” or regular size-grading of the stock is a critical management practice to prevent

A:-Spontaneous sex reversal in the early juvenile stages

B:-Visual disorientation of the schooling individuals

C:-Cannibalism and highly skewed size distribution at harvest

D:-Excessive accumulation of lipids in the dorsal muscle tissue

Correct Answer:- Option-C

Question51:-In a zero-exchange biofloc system, the theoretical optimum Carbon-to-Nitrogen (C:N) ratio required to completely assimilate 1 g of Total Ammonia Nitrogen (TAN) into heterotrophic bacterial biomass is approximately

A:-5:1

B:-10:1

C:-15:1 to 20:1

D:-1:1

Correct Answer:- Option-C

Question52:-In marine pearl culture using *Pinctada fucata*, what forms the core matrix around which the pearl nacre is secreted ?

A:-A piece of regular nylon thread

B:-A spherical shell bead nucleus along with a piece of mantle donor tissue

C:-A grain of natural silica sand only

D:-A chemical pellet made of concentrated calcium carbonate paste

Correct Answer:- Option-B

Question53:-What is the primary ecological risk associated with locating intensive fish cage farms in shallow, poorly flushed coastal bays or lagoons with minimal tidal flushing ?

A:-
Rapid localized drop in water temperature due to shading

B:-Accelerated physical erosion of the surrounding natural shoreline

C:-Drastic drop in surface water salinity due to fish metabolic waste

D:-Benthic organic enrichment leading to anoxic “dead zones” beneath the cages

Correct Answer:- Option-D

Question54:-Seaweeds cultivated in proximity to fish cages in Integrated Multi-Trophic Aquaculture (IMTA) systems serve what main environmental purpose ?

A:-They extract inorganic dissolved nutrients (Nitrogen and Phosphorus) excreted by the fish

B:-They physically shade the fish from all solar radiation

C:-They actively consume the pelleted feed fragments

D:-They alter the salinity of the cage water

Correct Answer:- Option-A

Question55:-From a financial management perspective, feed costs typically account for what percentage of total Operational Expenses (OPEX) in intensive aquaculture operations ?

A:-
Less than 10%

B:-20 to 30%

C:-
50 to 70%

D:-90 to 95%

Correct Answer:- Option-C

Question56:-

Assertion : Before stocking, the ponds should be dried, ploughed and excessive silt should be removed from the ponds.
Reason : At high temperature, hydrogen sulphide, methane are generated from the

decomposition of the sediments.

A:-Both the assertion and the reason are correct. And the reason is the correct explanation of the assertion

B:-The assertion and the reason are correct. But the reason is not the correct explanation of the assertion

C:-The assertion is true, but the reason is false

D:-

The assertion is false, but the reason is true

Correct Answer:- Option-A

Question57:-

Match the following pH level in List - I with their respective lime dose in List -II

List - I	**List - II**
pH	**Lime dose (kg/ ha)**
a. 4.0	i. 700
b. 4.5-5.5	ii. 200
c. 5.5-6.5	iii. 500
d. 6.5-7.5	iv. 1000

A:-a-i, b-ii, c-iii, d-iv

B:-a-ii, b-iii, c-iv, d-i

C:-a-ii, b-i, c-iv, d-iii

D:-a-iv, b-i, c-iii, d-ii

Correct Answer:- Option-D

Question58:-Pick the odd statement about vertical jar hatchery.

A:-Need high water requirement

B:-Rise in external temperature can be overcome by air-conditioning the room

C:-Can be operated in a compact area

D:-

Adverse water condition can be controlled

Correct Answer:- Option-A

Question59:-Which of the following is the preferred shape of bangla bundh ?

A:-Square shape

B:-Rectangular shape

C:-Trapezoidal shape

D:-Circular shape

Correct Answer:- Option-C

Question60:-

Which of the following statements are correct regarding shrimp broodstock management ?

i. Eyestalk ablation is used to induce spawning in shrimps.

ii. Loss of hemolymph in shrimp brooders leads to inferior quality seed.

iii. Eyestalk ablation reduces the secretion of Gonad-Inhibiting Hormone (GIH), thereby promoting ovarian maturation

A:-Only ii and iii

B:-Only i and iii

C:-Only iii

D:-All of the above

Correct Answer:- Option-B

Question61:-

Assertion : The maturity of the fishes can be accelerated by rearing the brooders in ponds having depth of 2-2.5m.

Reason : Brooders generally die or show poor maturation due to increased temperature.

A:-Both the assertion and the reason are correct. And the reason is the correct explanation of the assertion

B:-The assertion and the reason are correct. But the reason is not the correct explanation of the assertion

C:-The assertion is true, but the reason is false

D:-The assertion is false, but the reason is true

Correct Answer:- Option-D

Question62:-

Assertion : Carp fry raised on phytoplankton alone is very weak and the survival is very poor.
Reason : Phytoplankton organisms have a resistant cell wall, which is indigestible by tender fry.

A:-Both the assertion and the reason are correct. And the reason is the correct explanation of the assertion

B:-The assertion and the reason are correct. But the reason is not the correct explanation of the assertion

C:-The assertion is true, but the reason is false

D:-The assertion is false, but the reason is true

Correct Answer:- Option-A

Question63:-Which of the following produces ecdysterone in shrimps?

A:-X-organ

B:-Mandibular organ

C:-Y-organ

D:-Pituitary gland

Correct Answer:- Option-C

Question64:-

Match the following common names of ornamental fishes in List – I with their scientific names in List –II

List – I	**List – II**
Common names	**Scientific names**
a. Angel fish	i. Brachydanio rerio
b. Sword tail	ii. Puntius denisoni
c. Zebra danio	iii. Xiphophorus sp.
d. Red-line torpedo fish	iv. Pterophyllum scalare

A:-a-i, b-ii, c-iii, d-iv

B:-a-iii, b-iv, c-ii, d-i

C:-a-ii, b-i, c-iv, d-iii

D:-a-iv, b-iii, c-i, d-ii

Correct Answer:- Option-D

Question65:-Pick the odd statement about the green water technique

A:-Deteriorates the water quality

B:-Direct food source through active uptake by the larvae

C:-Increasing feeding incidence

D:-Microbial control by algal exudates in tank water

Correct Answer:- Option-A

Question66:-Salted surimi may contain upto

A:-2.5% Sodium Chloride

B:-3.5% Sodium Chloride

C:-4.5% Sodium Chloride

D:-5.5% Sodium Chloride

Correct Answer:- Option-A

Question67:-Masmin is prepared from

A:-Seerfish

B:-Mackarel

C:-Ribbonfish

D:-Tuna

Correct Answer:- Option-D

Question68:-Constant rate of drying of fish depends on

A:-Relative Humidity

B:-Fat content

C:-Shape of fish

D:-Water content

Correct Answer:- Option-A

Question69:-Fish soluble is also known as

A:-Fish oil

B:-Fish meal

C:-Stick water

D:-Fish manure

Correct Answer:- Option-C

Question70:-During filling the can, the optimum Head-space should be

A:-3 to 6 mm

B:-6 to 9 mm

C:-9 to 12 mm

D:-12 to 15 mm

Correct Answer:- Option-B

Question71:-
Match each terminology and its definition related to the construction of a fish pond.

1. Embankment height	a. A ratio of the horizontal distance to the vertical drop of the pond's dike
2. Embankment width	b. The total vertical distance from the pond bottom to the top of the embankment
3. Freeboard	c. The flat horizontal distance at the top of the pond's dike
4. Embankment slope	d. The vertical distance between the maximum designated water level and the top crest of the pond's dike

A:-1 ⇒ d; 2 ⇒ b; 3 ⇒ a; 4 ⇒ c

B:-1 ⇒ b; 2 ⇒ d; 3 ⇒ a; 4 ⇒ c

C:-1 ⇒ c; 2 ⇒ a; 3 ⇒ d; 4 ⇒ b

D:-1 ⇒ b; 2 ⇒ c; 3 ⇒ d; 4 ⇒ a

Correct Answer:- Option-D

Question72:-

Which of the following statement are correct with reference to Root Blowers used for aeration in shrimp larval rearing tanks ?

i. It provides large volume of low pressure air.
ii. It provides small volume of high pressure air.
iii. It does not produce oil slicks on the surface of the water.
iv. It requires air filters at the inlet and outlet pipes.

A:-i and iv

B:-i and iii

C:-ii, iii and iv

D:-ii and iv

Correct Answer:- Option-B

Question73:-

Assertion (A) : A sluice in the trench is a better inlet to let water into a fish pond than a simple inlet pipe of 10 cm in diameter.

Reason (R) : A slice built in the trench to keep out wild fish from entering into the fish pond.

A:-Both (A) and (R) are true and (R) is the correct explanation of (A)

B:-
Both (A) and (R) are true but (R) is not the correct explanation of (A)

C:-(A) is true, but (R) is false

D:-(A) is false, but (R) is true

Correct Answer:- Option-C

Question74:-

Calculate the total refrigeration capacity (Q_{total_load}) of the Mini Walk-in-Cooler used to store fish with the given different heat loads and by adding a safety margin of 1.2 ?

Transmission load (Qtr) = 450 W
Product cooling load (Qp) = 750 W
Infiltration load (Qinf) = 4500 W
Internal equipment load (Qeq) = 1000 W

A:-8040

B:-6700

C:-1440

D:-5583

Correct Answer:- Option-A

Question75:-A technology that powers a cooling or freezing system directly from solar panels without the need for batteries is termed as

A:-Solar Photovoltaics

B:-Energy Storage System (ESS)

C:-Solar Heating and Cooling (SHC) system

D:-
Solar Direct Drive (SDD) system

Correct Answer:- Option-D

Question76:-NFDP is a transformative initiative undertaken by Department of Fisheries, Ministry of Fisheries, Government of India for fisheries data collection and analysis to facilitate informed decision making, policy formulation and collaborations. Which among the given below is the correct expansion of NFDP ?

A:-National Fisheries Development Programme

B:-National Fisheries Digital Portal

C:-National Fisheries Digital Platform

D:-National Fisheries Digital Programme

Correct Answer:- Option-C

Question77:-Under the beneficiary-oriented components implemented through state channels under PMMSY, what is the maximum percentage of financial assistance (subsidy) provided for projects targeting SC, ST and Women beneficiaries ?

A:-40% of the unit cost

B:-50% of the unit cost

C:-60% of the unit cost

D:-
75% of the unit cost

Correct Answer:- Option-C

Question78:-Catch Per Unit Effort (CPUE) is a fundamental statistical index in fisheries biology. What does a declining Catch Per Unit Effort (CPUE) over time typically indicate about a fish stock ?

A:-The fish population is increasing

B:-The fishing gear is becoming more efficient

C:-The recruitment rate of the fish is at its peak

D:-The fish stock biomass is declining (over exploitation)

Correct Answer:- Option-D

Question79:-Which international body officially adopted the Code of Conduct for Responsible Fisheries (CCRF) and in which year ?

A:-United Nations General Assembly (UNGA) in 1982

B:-
World Trade Organization (WTO) in 2001

C:-International Union for Conservation of Nature (IUCN) in 1992

D:-Food and Agriculture Organization (FAO) in 1995

Correct Answer:- Option-D

Question80:-In the standard fisheries length-weight relationship equation, $W = aL^b$, what does it mean if the statistical analysis shows the exponent b is significantly greater than 3.0 ?

A:-The fish exhibits isometric growth

B:-

The fish grows faster in length than in weight

C:-The fish exhibits positive allometric growth

D:-The fish is starving or in poor condition

Correct Answer:- Option-C

Question81:-The Fish Farmers Development Agency (FFDA) was introduced as a pioneering institutional mechanism in India. What has been its primary, core mandate at the grassroots level ?

A:-Formulating international marine export policies for deep-sea tuna

B:-Providing technical, financial and extension support to popularize inland freshwater aquaculture

C:-Operating large-scale diesel subsidy schemes for mechanized marine trawlers

D:-Setting up commercial fish processing and canning factories in coastal cities

Correct Answer:- Option-B

Question82:-While sustainable fisheries management indirectly supports multiple global goals, which specific UN Sustainable Development Goal (SDG) is explicitly dedicated to the conservation and sustainable use of oceans, seas and marine resources ?

A:-SDG 6

B:-SDG 12

C:-SDG 14

D:-SDG 15

Correct Answer:- Option-C

Question83:-Which biological hotspot features India’s largest Marine National Park and Sanctuary network in terms of continuous coral reef protection ?

A:-Gulf of Mannar Marine National Park (Tamil Nadu)

B:-

Gulf of Kutch Marine National Park (Gujarat)

C:-Mahatma Gandhi Marine National Park (Andaman Islands)

D:-Gahirmatha Marine Sanctuary (Odisha)

Correct Answer:- Option-A

Question84:-How do healthy, strictly enforced Marine Protected Areas actively contribute to climate change mitigation and ocean resilience ?

A:-They physically cool down the temperature of the air above the water

B:-They stop the natural occurrence of underwater earthquakes

C:-They protect “Blue Carbon” sinks (like seagrasses and mangroves) and maintain genetic diversity to help species adapt to warming waters

D:-They dissolve all microplastics using natural marine enzymes

Correct Answer:- Option-C

Question85:-Which premier Indian research organization provides technical expertise, site selection assistance and post-deployment impact assessments for artificial reef projects in India ?

A:-ICAR-Central Marine Fisheries Research Institute (CMFRI)

B:-Geological Survey of India (GSI)

C:-National Institute of Urban Affairs (NIUA)

D:-
Central Inland Fisheries Research Institute (CIFRI)

Correct Answer:- Option-A

Question86:-Agreement under the United Nations Convention on the Law of the Sea on the Conservation and Sustainable use of Marine Biological Diversity of areas beyond National jurisdiction is

A:-BBNJ Agreement

B:-IUU Agreement

C:-Marine Stewardship Council

D:-WWF

Correct Answer:- Option-A

Question87:-The Schaefer surplus production model assumes that the highest growth rate of a fish population occurs at what level of the virgin biomass (K) ?

A:-1.0 K

B:-0.75 K

C:-0.5 K

D:-0.37 K

Correct Answer:- Option-C

Question88:-
To scientifically manage Marine resources, the Ministry of Fisheries (Government of India) enforces uniform ban periods across maritime states. What are the standard uniform ban periods traditionally applied to the East Coast and West Coast of India respectively ?

A:-East Coast: June 15 to July 31; West Coast: April 15 to May 31

B:-East Coast: April 15 to May 31; West Coast: June 15 to July 31

C:-East Coast: April 15 – June 14 (61 days); West Coast: June 1 – July 31 (61 days)

D:-Both Coasts face a uniform ban from June 1– July 31

Correct Answer:- Option-C

Question89:-Which statistical test is commonly used to compare the means of two independent fish populations ?

A:-Chi-square test

B:-t-test

C:-Analysis of variance

D:-Mann-Whitney U test

Correct Answer:- Option-B

Question90:- The Kerala Marine Fishing Regulation Act, 1980 (KMFRA) empowers the State Government to regulate, restrict or prohibit fishing activities by fishing vessels within its territorial waters primarily to achieve which of the following objective pairs ?

A:-Promote foreign export, build modern harbours

B:-Conserve marine resources, maintain law and order among fishers

C:-Minimize fuel taxation, subsidize vessel manufacturing

D:-Nationalize all private fishing vessels, control fish retail markets

Correct Answer:- Option-B

Question91:-Select the correct answer from the statements given below :

A:-FAO Code of Conduct for Responsible Fisheries (CCRF) is a binding instrument

B:-United Nations Convention on the Law of the Seas (UNCLOS) is a voluntary instrument

C:-Statements A) and B) are correct

D:-Statements A) and B) are wrong

Correct Answer:- Option-D

Question92:-Kerala Marine Fisheries Regulation Act has jurisdiction up to

A:-200 nautical miles

B:-22 nautical miles

C:-12 nautical miles

D:-All the above

Correct Answer:- Option-C

Question93:-ICAR-CMFRI has played a significant role in

A:-The formation of Matsyafed

B:-The development of Minimum Legal Size

C:-Formation of Matsyaboard

D:-Development of Hybrid solar drier

Correct Answer:- Option-B

Question94:-According to the KMFR Act, if the owner of a fishing vessel proposes to use their vessel for fishing in the territorial waters of Kerala, they must apply for a license. If an owner is aggrieved by an order refusing to grant, cancel, or suspend a license, to whom must they appeal ?

A:-The Director of Fisheries

B:-The State Fisheries Minister

C:-The Appellate Authority designated by the Government

D:-The High Court of Kerala

Correct Answer:- Option-C

Question95:-A vital socio-ecological component of the KMFR Act and similar Marine Fishing Regulation Act is the demarcation of fishing zones. Which of the following best describes the legal framework regarding fishing zones in Kerala ?

A:-Traditional non-motorized fishers are given exclusive rights to fish within the 3-nautical-mile zone

B:-The maritime rules strongly encourage reserving zones exclusively for traditional fishers to protect their livelihoods

C:-Mechanized vessels are legally permitted to fish up to the shoreline during the monsoon season only

D:-Foreign vessels are permitted to fish up to 5 nautical miles if they pay an access fee to the state

Correct Answer:- Option-B

Question96:-“Matsyafed”operates as a two-tier co-operative federation to support the socio-economic development of traditional fishers in Kerala. Which of the following statements accurately describes its core organizational and financial structure ?

A:-The apex federation is directly comprised of individual fishers as primary shareholders, bypassing regional co-operative structures

B:-Primary Fishermen Development Welfare Co-operative Societies (FDWCS) are organized at the village level and affiliated with Matsyafed as the apex body

C:-

Matsyafed is entirely funded by corporate commercial bonds issued on the National Stock Exchange to eliminate reliance on state subsidies

D:-The daily governance and selection of the Board of Directors are strictly managed by the State Fisheries Management Council (SFMC).

Correct Answer:- Option-B

Question97:-
The ICAR-Central Institute of Fisheries Education (CIFE) plays a pivotal role in advanced fisheries research, technology generation and human resource development. Which of the following statements correctly identifies a distinct

historical, institutional, or operational milestone of ICAR-CIFE ?

A:-CIFE was initially established in 1961 with technical assistance from the Food and Agriculture Organization (FAO) and was immediately granted Deemed University status upon inception.

B:-The administrative and main headquarters of CIFE were originally founded in Mandapam, Tamil Nadu, before being permanently shifted to Versova, Mumbai.

C:-CIFE was elevated to the status of a Deemed University in 1989 under the UGC Act, making it the first university-level institution within the ICAR system.

D:-The institute operates its mandatory commercial deep-sea exploratory fishing vessels directly under the administrative jurisdiction of the Fishery Survey of India (FSI).

Correct Answer:- Option-C

Question98:-The National Fisheries Development Board (NFDB), established in 2006 and headquartered in Hyderabad, is an autonomous apex body crucial to India's Blue Economy. Which of the following statements accurately outlines its administrative architecture and specific institutional operations ?

A:-The Governing Body of the NFDB is chaired by the Prime Minister of India to guarantee direct oversight of the Pradhan Mantri Matsya Sampada Yojana (PMMSY).

B:-The Executive Committee (EC), which manages general superintendence and functional control, is chaired by the Union Cabinet Minister of Agriculture.

C:-The NFDB is structurally overseen by a Governing Body chaired by the Union Minister in charge of Fisheries, while the Executive Committee is chaired by the Secretary of the Department of Fisheries.

D:-The board relies strictly on private-sector capital and is prohibited by its charter from funding State Government or ICAR-led infrastructure projects.

Correct Answer:- Option-C

Question99:-Which of the following statement is true ?

A:-Matsyaboard was established in 1972

B:-MPEDA was established in 1972

C:-Indo-Norwegian Project became operational in 1972

D:-Kerala Fisheries Department was established in 1972

Correct Answer:- Option-B

Question100:-The HQ of The Kerala State Co-operative Federation for Fisheries Development Ltd. Is located at

A:-Thrissur

B:-Ernakulam

C:-Alappuzha

D:-Thiruvananthapuram

Correct Answer:- Option-D