

## National Testing Agency

**Question Paper Name:** FISHERY SCIENCES 1st July 2019 Shift2 Set 2  
**Subject Name:** FISHERY SCIENCES  
**Creation Date:** 2019-07-01 18:50:29  
**Duration:** 180  
**Total Marks:** 800  
**Display Marks:** Yes  
**Share Answer Key With Delivery Engine:** Yes  
**Actual Answer Key:** Yes

### FISHERY SCIENCES

**Group Number :** 1  
**Group Id :** 55317231  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 180  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 800

### Part A : General Knowledge

**Section Id :** 55317247  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 20  
**Number of Questions to be attempted:** 20  
**Section Marks:** 80  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 55317269  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 5531725315 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

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

**There is a parliamentary system of Government in India because the**

- (1) Lok Sabha is elected directly by the people.
- (2) Parliament can amend the Constitution.
- (3) Rajya Sabha cannot be dissolved.
- (4) Council of the ministers are responsible to the Lok Sabha.

**Options :**

55317221201. 1  
55317221202. 2  
55317221203. 3  
55317221204. 4

Question Number : 2 Question Id : 5531725316 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**Gilt – edged market refers to**

- (1) Bullion market
- (2) Market of Govt. Securities
- (3) Market of guns
- (4) Market of pure metals

Options :

55317221205. 1  
55317221206. 2  
55317221207. 3  
55317221208. 4

Question Number : 3 Question Id : 5531725317 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**Which one of the following is known as the 'Coffee Port' of the world?**

- (1) Sao Paulo
- (2) Santos
- (3) Rio de Janeiro
- (4) Buenos Aires

Options :

55317221209. 1  
55317221210. 2  
55317221211. 3  
55317221212. 4

Question Number : 4 Question Id : 5531725318 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**For increasing milk production, which state launched Rs.215 crore project 'Milk Mission' in July, 2018?**

- (1) Meghalaya
- (2) Assam
- (3) Tripura
- (4) Nagaland

Options :

55317221213. 1  
55317221214. 2  
55317221215. 3  
55317221216. 4

Question Number : 5 Question Id : 5531725319 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**Which of the following is the main characteristic of mixed farming?**

- (1) Cultivation of both cash crops and food crops.
- (2) Cultivation of two or more crops in the same field.
- (3) Cultivation of crops and rearing of animals together.
- (4) Cultivation of fruits and vegetables.

Options :

- 55317221217. 1
- 55317221218. 2
- 55317221219. 3
- 55317221220. 4

Question Number : 6 Question Id : 5531725320 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**When you travel in certain parts of India, you will notice red soils. What is the main reason for this colour?**

- (1) Abundance of magnesium
- (2) Accumulated humus
- (3) Presence of ferric oxides
- (4) Abundance of phosphates

Options :

- 55317221221. 1
- 55317221222. 2
- 55317221223. 3
- 55317221224. 4

Question Number : 7 Question Id : 5531725321 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**Which of the following sets of elements were primarily responsible for the origin of life on the earth?**

- (1) Carbon, Hydrogen, Nitrogen
- (2) Hydrogen, Oxygen, Sodium
- (3) Oxygen, Calcium, Phosphorous
- (4) Carbon, Hydrogen, Potassium

Options :

- 55317221225. 1
- 55317221226. 2
- 55317221227. 3
- 55317221228. 4

Question Number : 8 Question Id : 5531725322 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**Which of the following statement is NOT true?**

- (1) Khaira is a disease found in paddy.
- (2) False smut is a disease found in barley.
- (3) Rust disease is found in wheat.
- (4) Early blight is a disease found in potato.

**Options :**

- 55317221229. 1
- 55317221230. 2
- 55317221231. 3
- 55317221232. 4

Question Number : 9 Question Id : 5531725323 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**Golden rice variety has been developed to combat the deficiency of**

- (1) Iron
- (2) Vitamin C
- (3) Calcium
- (4) Vitamin A

**Options :**

- 55317221233. 1
- 55317221234. 2
- 55317221235. 3
- 55317221236. 4

Question Number : 10 Question Id : 5531725324 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**A person of mixed European and Indian blood in Latin America is called a**

- (1) Mulato
- (2) Mestizo
- (3) Meiji
- (4) Mau Mau

**Options :**

- 55317221237. 1
- 55317221238. 2
- 55317221239. 3
- 55317221240. 4

Question Number : 11 Question Id : 5531725325 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**In the context of International Trade 'Early Harvest Package' refers to**

- (1) A precursor to a free trade agreement between two trading partners.
- (2) A clause related to the agreement on agriculture under the WTO.
- (3) A subsidy mechanism given to the developing countries for trade in agriculture.
- (4) A transportation agreement signed between countries for the movement of goods.

**Options :**

- 55317221241. 1
- 55317221242. 2
- 55317221243. 3
- 55317221244. 4

Question Number : 12 Question Id : 5531725326 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**The nitrogen present in atmosphere is**

- (1) of no use to plants
- (2) injurious to plants
- (3) directly utilized by the plants
- (4) utilized through micro organism

**Options :**

- 55317221245. 1
- 55317221246. 2
- 55317221247. 3
- 55317221248. 4

Question Number : 13 Question Id : 5531725327 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**Agricultural Scientist M.S. Swaminathan received an honorary medallion from India for his contribution towards the development of agricultural practices from which country?**

- (1) Canada
- (2) Australia
- (3) New Zealand
- (4) Mexico

**Options :**

- 55317221249. 1
- 55317221250. 2
- 55317221251. 3
- 55317221252. 4

Question Number : 14 Question Id : 5531725328 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

**ICAR, New Delhi has identified three BT cotton varieties for cultivation in Punjab, Haryana and Rajasthan; which were developed by Punjab Agricultural University (PAU), Ludhiana recently. Which one of the following is NOT among those three?**

- (1) PAU BT - 1
- (2) BT -1861
- (3) F - 1861
- (4) RS – 2013

**Options :**

- 55317221253. 1
- 55317221254. 2
- 55317221255. 3
- 55317221256. 4

**Question Number : 15 Question Id : 5531725329 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**Most abundant Carbohydrate in the world is**

- (1) Pectin
- (2) Rubisco
- (3) Hemicellulose
- (4) Cellulose

**Options :**

- 55317221257. 1
- 55317221258. 2
- 55317221259. 3
- 55317221260. 4

**Question Number : 16 Question Id : 5531725330 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**Which one of the following is known as queen of spices?**

- (1) Clove
- (2) Pepper
- (3) Nutmeg
- (4) Cardamom

**Options :**

- 55317221261. 1
- 55317221262. 2
- 55317221263. 3
- 55317221264. 4

**Question Number : 17 Question Id : 5531725331 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**In which city has NABARD launched South East Asia's first centre for 'Climate Change'?**

- (1) Jaipur
- (2) Patna
- (3) Lucknow
- (4) Chennai

**Options :**

- 55317221265. 1
- 55317221266. 2
- 55317221267. 3
- 55317221268. 4

**Question Number : 18 Question Id : 5531725332 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**World Bank assisted project SMART was launched in**

- (1) Rajasthan
- (2) Gujarat
- (3) Maharashtra
- (4) Punjab

**Options :**

- 55317221269. 1
- 55317221270. 2
- 55317221271. 3
- 55317221272. 4

**Question Number : 19 Question Id : 5531725333 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**National Research Centre for grapes is located at**

- (1) Nashik
- (2) Pune
- (3) Muzaffarpur
- (4) Lucknow

**Options :**

- 55317221273. 1
- 55317221274. 2
- 55317221275. 3
- 55317221276. 4

**Question Number : 20 Question Id : 5531725334 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**The National Milk Day which marks the birth anniversary of father of White Revolution Dr. Verghese Kurien is celebrated on**

- (1) November 23
- (2) November 24
- (3) November 25
- (4) November 26

**Options :**

- 55317221277. 1
- 55317221278. 2
- 55317221279. 3
- 55317221280. 4

**Part B : FISHERY SCIENCES**

<b>Section Id :</b>	55317248
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<b>Mandatory or Optional:</b>	Mandatory
<b>Number of Questions:</b>	180
<b>Number of Questions to be attempted:</b>	180
<b>Section Marks:</b>	720
<b>Display Number Panel:</b>	Yes
<b>Group All Questions:</b>	No

<b>Sub-Section Number:</b>	1
<b>Sub-Section Id:</b>	55317270
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 5531725335 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

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

**Lakes formed due to river meandering:**

1. Oligotrophic lake
2. Oxbow lakes
3. Mictic lake
4. Amictic lake

**Options :**

- 55317221281. 1
- 55317221282. 2
- 55317221283. 3
- 55317221284. 4

**Question Number : 22 Question Id : 5531725336 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

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

**The line on a map, joining places having the same amount of rain fall:**

1. Insolevel
2. Isohyet
3. Isoneph
4. Isotach

**Options :**

- 55317221285. 1
- 55317221286. 2
- 55317221287. 3



55317221288. 4

Question Number : 23 Question Id : 5531725337 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The primary growth ring in the teleostean bony ridge scale called:

1. Radius
2. Annulus
3. Focus
4. Circulus

Options :

55317221289. 1

55317221290. 2

55317221291. 3

55317221292. 4

Question Number : 24 Question Id : 5531725338 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which article of Code of Conduct for Responsible Fisheries deals with fishing operations?

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

Options :

55317221293. 1

55317221294. 2

55317221295. 3

55317221296. 4

Question Number : 25 Question Id : 5531725339 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The fishery of which reservoir collapsed due to the accidental entry of silver carp:

1. Gobindsagar
2. Vallabh Sagar
3. Gandhi Sagar
4. Nagarjuna Sagar

Options :

55317221297. 1

55317221298. 2

55317221299. 3

55317221300. 4

Question Number : 26 Question Id : 5531725340 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Indian Co- operative Societies Act was enacted for the first in the year:

1. 1949
2. 1881
3. 1950
4. 1904

Options :

55317221301. 1  
55317221302. 2  
55317221303. 3  
55317221304. 4

Question Number : 27 Question Id : 5531725341 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Around 30 % of the total world marine fish landings are contributed by the suborder:

1. Percoidei
2. Gadoidei
3. Clupeoidei
4. Pleuronectoidei

Options :

55317221305. 1  
55317221306. 2  
55317221307. 3  
55317221308. 4

Question Number : 28 Question Id : 5531725342 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Optimum water depth in the hatching or incubation pool or the Chinese hatchery is

1. 0.5 to 1.0 m
2. 1.5 to 2.0 m
3. 2.0 to 2.5 m
4. 2.5 to 3.0 m

Options :

55317221309. 1  
55317221310. 2  
55317221311. 3  
55317221312. 4

Question Number : 29 Question Id : 5531725343 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following habitats are mostly affected by the use of a fishing dredge:

1. Soft bottom
2. Clayey bottom
3. Rocky Bottom
4. Sea grass beds

Options :

55317221313. 1

55317221314. 2

55317221315. 3

55317221316. 4

Question Number : 30 Question Id : 5531725344 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

When lost in the sea, which among the following fishing gears can cause significant ghost fishing:

1. Dredges
2. Traps
3. Long lines
4. Squid jigs

Options :

55317221317. 1

55317221318. 2

55317221319. 3

55317221320. 4

Question Number : 31 Question Id : 5531725345 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

$17\alpha$ ,  $20\beta$  DHP, acts upon:

1. Brain
2. Hypothalamus
3. Oocyte
4. Gonads

Options :

55317221321. 1

55317221322. 2

55317221323. 3

55317221324. 4

Question Number : 32 Question Id : 5531725346 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A zero change in the marine Trophic Index of a fishery indicates that:

1. Large predators are getting depleted
2. Small pelagics are over fished
3. Fishery is stable
4. Fishery is improving

**Options :**

- 55317221325. 1
- 55317221326. 2
- 55317221327. 3
- 55317221328. 4

**Question Number : 33 Question Id : 5531725347 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Which among the following is an indirect benefit of establishment of a marine protected area?

- 1. Improvement in Fisheries
- 2. Fishing mortality decreases
- 3. Increase in population size
- 4. Improvement in population structure

**Options :**

- 55317221329. 1
- 55317221330. 2
- 55317221331. 3
- 55317221332. 4

**Question Number : 34 Question Id : 5531725348 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Sigmoid selectivity curve is a characteristic of:

- 1. Gill net
- 2. Bottom trawl
- 3. Long line
- 4. Hook and line

**Options :**

- 55317221333. 1
- 55317221334. 2
- 55317221335. 3
- 55317221336. 4

**Question Number : 35 Question Id : 5531725349 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Gonadotropin releasing hormone (GnRH) is released from:

- 1. Hypothalamus
- 2. Gonad
- 3. Pituitary
- 4. Liver

**Options :**

- 55317221337. 1
- 55317221338. 2
- 55317221339. 3
- 55317221340. 4

**Question Number : 36 Question Id : 5531725350 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

The larval stage of sea cucumber when tentacles start to appear:

1. Pentacularia
2. Auricularia
3. Bipinnaria
4. Doliolaria

Options :

- 55317221341. 1
- 55317221342. 2
- 55317221343. 3
- 55317221344. 4

Question Number : 37 Question Id : 5531725351 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A fish which exhibits semelparity in breeding?

1. Atlantic cod
2. Pacific Salmon
3. Sea horse
4. Hilsa

Options :

- 55317221345. 1
- 55317221346. 2
- 55317221347. 3
- 55317221348. 4

Question Number : 38 Question Id : 5531725352 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

*Oreochromis mossambicus* usually attains maturity at the age of:

1. 2 years
2. 2 months
3. 6 months
4. 1 year

Options :

- 55317221349. 1
- 55317221350. 2
- 55317221351. 3
- 55317221352. 4

Question Number : 39 Question Id : 5531725353 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Male brooders in ripe condition are known as:

1. Gravid
2. Milter
3. Berried
4. Sire

Options :

- 55317221353. 1
- 55317221354. 2

55317221355. 3

55317221356. 4

Question Number : 40 Question Id : 5531725354 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fish stock occurring in the EEZ of more than one country is known as:

1. Highly migratory stock
2. Straddling stocks
3. Migratory stocks
4. High sea fish stocks

Options :

55317221357. 1

55317221358. 2

55317221359. 3

55317221360. 4

Question Number : 41 Question Id : 5531725355 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Virtual population Analysis (VPA) was first introduced for fish stock assessment by:

1. Daniel Panly
2. Gulland
3. Cushing
4. Beverton and Holt

Options :

55317221361. 1

55317221362. 2

55317221363. 3

55317221364. 4

Question Number : 42 Question Id : 5531725356 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

*Zebra danio* is a typical example of:

1. Egg scatterer having adhesive eggs
2. Egg scatterer having non adhesive eggs
3. Live bearer
4. Nest builder

Options :

55317221365. 1

55317221366. 2

55317221367. 3

55317221368. 4

Question Number : 43 Question Id : 5531725357 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

As an input control in fisheries management there is no restriction on the:

1. Number of vessels
2. Time allotted for fishing
3. Quantity of fish caught
4. Size of the vessel

Options :

- 55317221369. 1
- 55317221370. 2
- 55317221371. 3
- 55317221372. 4

Question Number : 44 Question Id : 5531725358 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The area up to 12 nautical miles in breadth measured from the baseline of a country is known as:

1. High Seas
2. Internal waters
3. Contiguous zone
4. Territorial waters

Options :

- 55317221373. 1
- 55317221374. 2
- 55317221375. 3
- 55317221376. 4

Question Number : 45 Question Id : 5531725359 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following international conventions is non-binding in nature:

1. UNCLOS
2. UN Fish Stock Agreement
3. CCRF
4. Indian Ocean Tuna Commission

Options :

- 55317221377. 1
- 55317221378. 2
- 55317221379. 3
- 55317221380. 4

Question Number : 46 Question Id : 5531725360 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following is the first stage, before adoption of a technology by an individual:

1. Preparatory stage
2. Awareness stage
3. Evaluation stage
4. Trial stage

**Options :**

- 55317221381. 1
- 55317221382. 2
- 55317221383. 3
- 55317221384. 4

**Question Number : 47 Question Id : 5531725361 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

A person who is eager to accept and generate new ideas, is known as:

- 1. Early adopter
- 2. Followers
- 3. Leader
- 4. Innovator

**Options :**

- 55317221385. 1
- 55317221386. 2
- 55317221387. 3
- 55317221388. 4

**Question Number : 48 Question Id : 5531725362 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Fish oocytes are considered as:

- 1. Monospermy
- 2. Oligospermy
- 3. Polyspermy
- 4. Endospermy

**Options :**

- 55317221389. 1
- 55317221390. 2
- 55317221391. 3
- 55317221392. 4

**Question Number : 49 Question Id : 5531725363 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Which among the following was the first introduced ecolabel:

- 1. Dolphin safe
- 2. MSC
- 3. Friend of the sea
- 4. KRAV

**Options :**

- 55317221393. 1
- 55317221394. 2
- 55317221395. 3
- 55317221396. 4

**Question Number : 50 Question Id : 5531725364 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**



Correct Marks : 4 Wrong Marks : 1

Which one of the following is larvicidal fish:

1. Tilapia
2. Catla
3. Mrigal
4. *Gambusia affinis*

Options :

55317221397. 1

55317221398. 2

55317221399. 3

55317221400. 4

Question Number : 51 Question Id : 5531725365 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Mesh size of purse seine designed to catch a species will be:

1. Same as that of a gill net designed to catch the same species
2. More than that of a gill net designed to catch the same species
3. Less than that of a gill net designed to catch the same species
4. No relation with the mesh size of a gill net designed for the same species

Options :

55317221401. 1

55317221402. 2

55317221403. 3

55317221404. 4

Question Number : 52 Question Id : 5531725366 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Influence of Arabic boat design can be observed in the traditional boats of:

1. Saurashtra Coast
2. Konkan Coast
3. Malabar Coast
4. South Gujarat

Options :

55317221405. 1

55317221406. 2

55317221407. 3

55317221408. 4

Question Number : 53 Question Id : 5531725367 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Use of acoustic fish detection methods is essential for successful:

1. Purse seining
2. Bottom trawling
3. Gill netting
4. Mid water trawling

Options :

- 55317221409. 1
- 55317221410. 2
- 55317221411. 3
- 55317221412. 4

Question Number : 54 Question Id : 5531725368 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

How can we identify male brooders of IMC?

1. Roughness of pectoral fins
2. Smoothness of pectoral fins
3. Roughness on tail fin
4. Redness on ventral fin

Options :

- 55317221413. 1
- 55317221414. 2
- 55317221415. 3
- 55317221416. 4

Question Number : 55 Question Id : 5531725369 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following is not usually landed in 'Dol nets'

1. *Acetes indicus*
2. *Harpodon nehereus*
3. *Coilia dussumieri*
4. *Nemipterus japonicus*

Options :

- 55317221417. 1
- 55317221418. 2
- 55317221419. 3
- 55317221420. 4

Question Number : 56 Question Id : 5531725370 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Thread fin breams and perches from the major fish groups in the trawl catches of:

1. North East coast of India
2. South East coast of India
3. South West coast of India
4. North West coast of India

Options :

- 55317221421. 1
- 55317221422. 2
- 55317221423. 3
- 55317221424. 4

Question Number : 57 Question Id : 5531725371 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which state in India is the major producer of green mussel in the country?

1. Karnataka
2. Gujarat
3. Odisha
4. Kerala

Options :

- 55317221425. 1
- 55317221426. 2
- 55317221427. 3
- 55317221428. 4

Question Number : 58 Question Id : 5531725372 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which kind of net is generally used to collect egg from the flowing water from natural resources using:

1. Bag Net
2. Stike Net
3. Dot Net
4. Fyke Net

Options :

- 55317221429. 1
- 55317221430. 2
- 55317221431. 3
- 55317221432. 4

Question Number : 59 Question Id : 5531725373 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The depth range of abyssopelagic region of deep sea is

1. 150m – 1000m
2. 1000m – 3000m
3. 3000m – 6000m
4. Below 6000m

Options :

- 55317221433. 1
- 55317221434. 2
- 55317221435. 3
- 55317221436. 4

Question Number : 60 Question Id : 5531725374 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

How much percentage of the total world ocean area is formed by the Southern Ocean:

1. 15
2. 10
3. 5
4. 20

Options :

- 55317221437. 1
- 55317221438. 2
- 55317221439. 3
- 55317221440. 4

Question Number : 61 Question Id : 5531725375 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which among the following is deep sea shark found in the catches from the deep sea in India?

1. *Echinorhinus brucus*
2. *Plesionika spinipis*
3. *Bembrops caudimaculatus*
4. *Neopinnula orientalis*

Options :

- 55317221441. 1
- 55317221442. 2
- 55317221443. 3
- 55317221444. 4

Question Number : 62 Question Id : 5531725376 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Over fishing of a fish population affects its:

1. Genetic diversity
2. Species diversity
3. Ecosystem diversity
4. All of the above

Options :

- 55317221445. 1
- 55317221446. 2
- 55317221447. 3
- 55317221448. 4

Question Number : 63 Question Id : 5531725377 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An extension method to show fish farmers/fishermen that a new technique is practical and viable in local conditions:

1. Field visits
2. Result demonstration
3. Training
4. Method demonstration

Options :

- 55317221449. 1
- 55317221450. 2
- 55317221451. 3
- 55317221452. 4

Question Number : 64 Question Id : 5531725378 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Mid ventral keel and scutes are absent in the clupeid sub- family:

1. *Dorosominae*
2. *Dussumierinae*
3. *Clupeinae*
4. *Alosinae*

Options :

- 55317221453. 1
- 55317221454. 2
- 55317221455. 3
- 55317221456. 4

Question Number : 65 Question Id : 5531725379 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The 'soles' and 'tongue soles' come under the order:

1. *Soleoidei*
2. *Pleuronectoidei*
3. *Psettodei*
4. *Cynoglossidei*

Options :

- 55317221457. 1
- 55317221458. 2
- 55317221459. 3
- 55317221460. 4

Question Number : 66 Question Id : 5531725380 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

How much of percentage (%) of nitrogen waste is excreted in the form of ammonia in fish?

1. 100
2. 83
3. 90
4. 66

Options :

- 55317221461. 1
- 55317221462. 2
- 55317221463. 3
- 55317221464. 4

Question Number : 67 Question Id : 5531725381 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An example for branched chain amino acid:

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

Options :

- 55317221465. 1
- 55317221466. 2
- 55317221467. 3
- 55317221468. 4

Question Number : 68 Question Id : 5531725382 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An indispensable/ essential amino acid is:

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

**Options :**

- 55317221469. 1
- 55317221470. 2
- 55317221471. 3
- 55317221472. 4

**Question Number : 69 Question Id : 5531725383 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**Vitamin B12 is also known as:**

- 1. Cyanocobalamin
- 2. Biotin
- 3. Inositol
- 4. Cholecalciferol

**Options :**

- 55317221473. 1
- 55317221474. 2
- 55317221475. 3
- 55317221476. 4

**Question Number : 70 Question Id : 5531725384 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**The percentage of carbon in protein is:**

- 1. 50%
- 2. 40%
- 3. 60%
- 4. 30%

**Options :**

- 55317221477. 1
- 55317221478. 2
- 55317221479. 3
- 55317221480. 4

**Question Number : 71 Question Id : 5531725385 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

**The ratio of the length of the digestive tract to body length is known as:**

- 1. Mean gut length
- 2. Absolute gut length
- 3. Relative gut length
- 4. Net gut length

**Options :**

- 55317221481. 1
- 55317221482. 2
- 55317221483. 3
- 55317221484. 4

Question Number : 72 Question Id : 5531725386 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Net protein utilization is also known as:

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

Options :

55317221485. 1

55317221486. 2

55317221487. 3

55317221488. 4

Question Number : 73 Question Id : 5531725387 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Glycogen is converted into lactic acid when fish:

1. Breeds
2. Dies
3. Swims
4. Migrates

Options :

55317221489. 1

55317221490. 2

55317221491. 3

55317221492. 4

Question Number : 74 Question Id : 5531725388 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Arachidonic acid is a precursor of:

1. Prostaglandin
2. GSH
3. FSH
4. Domperidone

Options :

55317221493. 1

55317221494. 2

55317221495. 3

55317221496. 4

Question Number : 75 Question Id : 5531725389 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



The period of time during which antioxidants prevent oxidation is called:

1. Preventive time
2. Lagging time
3. Induction time
4. Safe time

Options :

- 55317221497. 1
- 55317221498. 2
- 55317221499. 3
- 55317221500. 4

Question Number : 76 Question Id : 5531725390 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Mineral that is required for the metabolism of vitamin A is:

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

Options :

- 55317221501. 1
- 55317221502. 2
- 55317221503. 3
- 55317221504. 4

Question Number : 77 Question Id : 5531725391 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The difference between the gross energy and the fecal energy of a unit quantity of the diet is termed as:

1. Catabolic energy
2. Feed energy
3. Anabolic energy
4. Digestible energy

Options :

- 55317221505. 1
- 55317221506. 2
- 55317221507. 3
- 55317221508. 4

Question Number : 78 Question Id : 5531725392 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The minimum rate of metabolic activity needed to sustain the structure and function of the body tissues:

1. Basal metabolism
2. Minimum metabolism
3. Sustainable metabolism
4. Gross metabolism

Options :

- 55317221509. 1
- 55317221510. 2
- 55317221511. 3
- 55317221512. 4

Question Number : 79 Question Id : 5531725393 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Trypsin attacks the peptide bond between:

1. Valine and leucine
2. Valine and lysine
3. Arginine and lysine
4. Arginine and leucine

Options :

- 55317221513. 1
- 55317221514. 2
- 55317221515. 3
- 55317221516. 4

Question Number : 80 Question Id : 5531725394 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pepsinogen is broken down to pepsin by hydrolysis with:

1. HCl
2. Acetic acid
3.  $H_2SO_4$
4. Organic acid

Options :

- 55317221517. 1
- 55317221518. 2
- 55317221519. 3
- 55317221520. 4

Question Number : 81 Question Id : 5531725395 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The weight of the gonad in relation to the body weight is known as:

1. Maturing Index
2. Productivity Index
3. Ponderal Index
4. Gonado- Somatic Index

Options :

55317221521. 1  
55317221522. 2  
55317221523. 3  
55317221524. 4

**Question Number : 82 Question Id : 5531725396 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

**Net gain in ATP while one mole of glucose is oxidised completely is:**

1. 36
2. 40
3. 26
4. 46

**Options :**

55317221525. 1  
55317221526. 2  
55317221527. 3  
55317221528. 4

**Question Number : 83 Question Id : 5531725397 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

**Selenium is a component of following enzyme:**

1. Organic matrix enzyme
2. Glutathione peroxidase
3. Metalloenzymes
4. Xanthine oxidase

**Options :**

55317221529. 1  
55317221530. 2  
55317221531. 3  
55317221532. 4

**Question Number : 84 Question Id : 5531725398 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

**Ammonia- nitrogen and TVN are usually measured using:**

1. Calorimeter
2. Soxtec Unit
3. TVB
4. Kjeldahl distillation Unit

**Options :**

55317221533. 1  
55317221534. 2  
55317221535. 3  
55317221536. 4

**Question Number : 85 Question Id : 5531725399 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The amount of digestible energy (DE) provided by a feed or feed ingredient is commonly expressed as a:

1. Percentage of recovered energy
2. Percentage of net energy
3. Percentage of metabolizable energy
4. Percentage of gross energy

Options :

- 55317221537. 1
- 55317221538. 2
- 55317221539. 3
- 55317221540. 4

Question Number : 86 Question Id : 5531725400 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The age of fish is determined by otoliths present in:

1. Ear
2. Eye
3. Skin
4. Scale

Options :

- 55317221541. 1
- 55317221542. 2
- 55317221543. 3
- 55317221544. 4

Question Number : 87 Question Id : 5531725401 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The prescribed antioxidant limit in standard fish oil used for aquafeed manufacture is:

1. 500  $\mu\text{g/g}$
2. 50  $\mu\text{g/g}$
3. 0.5  $\mu\text{g/g}$
4. 5000  $\mu\text{g/g}$

Options :

- 55317221545. 1
- 55317221546. 2
- 55317221547. 3
- 55317221548. 4

Question Number : 88 Question Id : 5531725402 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Jumping genes are called as:

1. Introns
2. Exons
3. Plasmons
4. Transposons

Options :

- 55317221549. 1
- 55317221550. 2
- 55317221551. 3
- 55317221552. 4

**Question Number : 89 Question Id : 5531725403 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

What should be the size of pellet feed with respect to the size of fish mouth gape?

- 1. 50-60%
- 2. 20-30%
- 3. 10-20%
- 4. 75-100%

**Options :**

- 55317221553. 1
- 55317221554. 2
- 55317221555. 3
- 55317221556. 4

**Question Number : 90 Question Id : 5531725404 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

In an ideal mating design, the number of males: female brooders to keep the inbreeding level minimal should be:

- 1. 1:1
- 2. 1:2
- 3. 1:4
- 4. 1:8

**Options :**

- 55317221557. 1
- 55317221558. 2
- 55317221559. 3
- 55317221560. 4

**Question Number : 91 Question Id : 5531725405 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Feed additives that help to hold feed mixture together as pellets are:

- 1. Binders
- 2. Antioxidants
- 3. Feed supplements
- 4. Probiotics

**Options :**

- 55317221561. 1
- 55317221562. 2
- 55317221563. 3
- 55317221564. 4

Question Number : 92 Question Id : 5531725406 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A diet containing less than 13% moisture is called as:

1. Wet diet
2. Moist diet
3. Dry diet
4. Semi - moist diet

Options :

55317221565. 1

55317221566. 2

55317221567. 3

55317221568. 4

Question Number : 93 Question Id : 5531725407 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Micro binding, micro coating and micro encapsulation procedures will produce larval feeds ranging in size from

1. 25 to 400 microns
2. 500 – 1000 microns
3. 1000- 1500 microns
4. >1500 microns

Options :

55317221569. 1

55317221570. 2

55317221571. 3

55317221572. 4

Question Number : 94 Question Id : 5531725408 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pellet mills use steam to moisten and heat the feed mixture to approximately

1. 160 to 185°F
2. 185 to 250°F
3. 250 to 300°F
4. 100 to 150°F

Options :

55317221573. 1

55317221574. 2

55317221575. 3

55317221576. 4

Question Number : 95 Question Id : 5531725409 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fish feeds prepared with plant soybean meal protein are typically of low:

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

Options :

55317221577. 1  
55317221578. 2  
55317221579. 3  
55317221580. 4

Question Number : 96 Question Id : 5531725410 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Preferred route of hormone administration to impart least stress to the brooders is

1. Intra muscular
2. Caudal vein
3. Intra peritoneal
4. Sub cutaneous

Options :

55317221581. 1  
55317221582. 2  
55317221583. 3  
55317221584. 4

Question Number : 97 Question Id : 5531725411 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Best medium to preserve carp pituitary gland is:

1. Ethanol
2. Methanol
3. Hypotonic solution
4. Normal saline

Options :

55317221585. 1  
55317221586. 2  
55317221587. 3  
55317221588. 4

Question Number : 98 Question Id : 5531725412 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Pituitary gland of the same species when used is called:

1. Homo plastic
2. Mero plastic
3. Hetero plastic
4. Auto plastic

Options :

55317221589. 1

55317221590. 2  
55317221591. 3  
55317221592. 4

**Question Number : 99 Question Id : 5531725413 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Compressed pelleting is also known as:

1. Extruded Pelleting
2. Steam Pelleting
3. Moist Pelleting
4. Dry Pelleting

**Options :**

55317221593. 1  
55317221594. 2  
55317221595. 3  
55317221596. 4

**Question Number : 100 Question Id : 5531725414 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Vitamin C is involved in metabolism of the following metal in fish:

1. Fe
2. Ni
3. Mg
4. Co

**Options :**

55317221597. 1  
55317221598. 2  
55317221599. 3  
55317221600. 4

**Question Number : 101 Question Id : 5531725415 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Maternal antibodies in hatchlings / can provide immunity up to:

1. One week
2. Six months
3. Three weeks
4. Two months

**Options :**

55317221601. 1  
55317221602. 2  
55317221603. 3  
55317221604. 4

**Question Number : 102 Question Id : 5531725416 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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



Organic acids promote the absorption of the following:

1. Calcium
2. Carbohydrates
3. Amino acids
4. Vitamin C

Options :

- 55317221605. 1
- 55317221606. 2
- 55317221607. 3
- 55317221608. 4

Question Number : 103 Question Id : 5531725417 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The vitamin that can be synthesized from cholesterol under sufficient UV light in fish:

1. Tocopherol
2. Ergocalciferol
3. Ascorbic acid
4. Cholecalciferol

Options :

- 55317221609. 1
- 55317221610. 2
- 55317221611. 3
- 55317221612. 4

Question Number : 104 Question Id : 5531725418 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

When two females are bred with a common single male, the resultant off spring will be called:

1. Maternal half sib
2. Paternal half sib
3. Maternal full sib
4. Paternal full sib

Options :

- 55317221613. 1
- 55317221614. 2
- 55317221615. 3
- 55317221616. 4

Question Number : 105 Question Id : 5531725419 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Scoliosis is caused due to the deficiency of:

1. Vitamin A
2. Vitamin C
3. Vitamin D
4. Vitamin E

**Options :**

- 55317221617. 1
- 55317221618. 2
- 55317221619. 3
- 55317221620. 4

**Question Number : 106 Question Id : 5531725420 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Drug discovery for a nutritional disorder is primarily a part of:

- 1. Proteomics
- 2. Transcriptomics
- 3. Metabolomics
- 4. Genomics

**Options :**

- 55317221621. 1
- 55317221622. 2
- 55317221623. 3
- 55317221624. 4

**Question Number : 107 Question Id : 5531725421 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Selective breeding of *Labeo rohita* was initiated in India in the year:

- 1. 1972
- 2. 1982
- 3. 1992
- 4. 1999

**Options :**

- 55317221625. 1
- 55317221626. 2
- 55317221627. 3
- 55317221628. 4

**Question Number : 108 Question Id : 5531725422 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Gene variation in response to differential responses to nutrients is:

- 1. Nutrigenomics
- 2. Nutriomics
- 3. Nutrigenetics
- 4. Nutraceuticals

**Options :**

- 55317221629. 1
- 55317221630. 2
- 55317221631. 3
- 55317221632. 4

Question Number : 109 Question Id : 5531725423 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A tool used for analysing gene expression that consists of a small membrane or glass slide containing samples of many genes arranged in a regular pattern, is:

1. Microarrays
2. Southern Blot
3. PCR
4. Northern blot

Options :

55317221633. 1

55317221634. 2

55317221635. 3

55317221636. 4

Question Number : 110 Question Id : 5531725424 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Changes in phenotype (appearance) on gene expression caused by mechanisms other than changes in the underlying DNA sequence is:

1. Polymorphism
2. Heterozygous
3. Epigenetics
4. Allele

Options :

55317221637. 1

55317221638. 2

55317221639. 3

55317221640. 4

Question Number : 111 Question Id : 5531725425 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bheries are present in:

1. Kerala
2. Karnataka
3. West Bengal
4. Assam

Options :

55317221641. 1

55317221642. 2

55317221643. 3

55317221644. 4

Question Number : 112 Question Id : 5531725426 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The last stage of larvae during the development of Rock lobsters is:

1. Puerulus
2. Glochidium
3. Pediveliger
4. Brachionus

Options :

55317221645. 1

55317221646. 2

55317221647. 3

55317221648. 4

Question Number : 113 Question Id : 5531725427 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The reservoir resources of India are estimated at:

1. 1.44 million ha
2. 3.15 million ha
3. 1.88 million ha
4. 1.20 million ha

Options :

55317221649. 1

55317221650. 2

55317221651. 3

55317221652. 4

Question Number : 114 Question Id : 5531725428 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fish were hunted in the olden times during the era of

1. Wood age
2. Metal age
3. Stone age
4. Pot age

Options :

55317221653. 1

55317221654. 2

55317221655. 3

55317221656. 4

Question Number : 115 Question Id : 5531725429 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The poisoning of reservoir during war time was described in:

1. Fanli's classic of fish chetnee
2. Vyasbharat
3. Kautilya's Arthashastra
4. Someshwara's Manasoltara

**Options :**

- 55317221657. 1
- 55317221658. 2
- 55317221659. 3
- 55317221660. 4

**Question Number : 116 Question Id : 5531725430 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The toxic effect of derris root powder lasts for:

- 1. 5 days
- 2. 1-4 days
- 3. 10-15 days
- 4. 30 - 35 days

**Options :**

- 55317221661. 1
- 55317221662. 2
- 55317221663. 3
- 55317221664. 4

**Question Number : 117 Question Id : 5531725431 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Scientific name of green mussel is:

- 1. *Perna indica*
- 2. *Perna viridis*
- 3. *Pinctada fucata*
- 4. *Crassostrea madrasensis*

**Options :**

- 55317221665. 1
- 55317221666. 2
- 55317221667. 3
- 55317221668. 4

**Question Number : 118 Question Id : 5531725432 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Larvae of lobster are known as:

- 1. Phyllosoma
- 2. Spat
- 3. Veliger
- 4. Megalopa

**Options :**

- 55317221669. 1
- 55317221670. 2
- 55317221671. 3
- 55317221672. 4

**Question Number : 119 Question Id : 5531725433 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

Correct Marks : 4 Wrong Marks : 1

Cell division cannot be disrupted by using:

1. Colchicine
2. Cytochalasin B
3. Hydrostatic pressure
4. Glycerol

Options :

55317221673. 1

55317221674. 2

55317221675. 3

55317221676. 4

Question Number : 120 Question Id : 5531725434 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Turbidity of water can be measured by using:

1. Secchi disk
2. Barometer
3. Calorimeter
4. Galvanometer

Options :

55317221677. 1

55317221678. 2

55317221679. 3

55317221680. 4

Question Number : 121 Question Id : 5531725435 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which country is the largest producer of pearls in the world

1. India
2. USA
3. Japan
4. Philippines

Options :

55317221681. 1

55317221682. 2

55317221683. 3

55317221684. 4

Question Number : 122 Question Id : 5531725436 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

*Penaeus monodon* attains maturity in:

1. 10-12 months
2. 6-8 months
3. 14-15 months
4. 15-18 months

**Options :**

- 55317221685. 1
- 55317221686. 2
- 55317221687. 3
- 55317221688. 4

**Question Number : 123 Question Id : 5531725437 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

The Coastal Aquaculture Authority of India was established under an:

- 1. ICAR regulation
- 2. Regulation of Agriculture Ministry
- 3. State Government Regulation
- 4. Act of Parliament

**Options :**

- 55317221689. 1
- 55317221690. 2
- 55317221691. 3
- 55317221692. 4

**Question Number : 124 Question Id : 5531725438 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

The gland that helps in induced breeding of fishes is:

- 1. Adrenal
- 2. Thyroid
- 3. Thymus
- 4. Pituitary

**Options :**

- 55317221693. 1
- 55317221694. 2
- 55317221695. 3
- 55317221696. 4

**Question Number : 125 Question Id : 5531725439 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Which one of the following is not an androgen:

- 1.  $17\alpha$  methyl testosterone
- 2. 11 keto testosterone
- 3.  $17-\beta$  Estradiol
- 4. Testosterone

**Options :**

- 55317221697. 1
- 55317221698. 2
- 55317221699. 3
- 55317221700. 4

Question Number : 126 Question Id : 5531725440 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is predominantly a phytoplankton feeder?

1. Silver carp
2. Bighead Carp
3. Grass carp
4. Common Carp

Options :

55317221701. 1

55317221702. 2

55317221703. 3

55317221704. 4

Question Number : 127 Question Id : 5531725441 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The degree of polymorphism exhibited will be highest using the following marker:

1. RAPD
2. RFLP
3. Microsatellite
4. SNP

Options :

55317221705. 1

55317221706. 2

55317221707. 3

55317221708. 4

Question Number : 128 Question Id : 5531725442 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fishes which deposit eggs on sand are called

1. Lithophils
2. Psammophils
3. Phytophils
4. Lectinophils

Options :

55317221709. 1

55317221710. 2

55317221711. 3

55317221712. 4

Question Number : 129 Question Id : 5531725443 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



*Clarus batrachas* is commonly called is:

1. Singhi
2. Magur
3. Butter catfish
4. Fresh water shark

Options :

55317221713. 1

55317221714. 2

55317221715. 3

55317221716. 4

Question Number : 130 Question Id : 5531725444 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Live manuring machine in an integrated system are:

1. Cattle
2. Sheep
3. Goats
4. Ducks

Options :

55317221717. 1

55317221718. 2

55317221719. 3

55317221720. 4

Question Number : 131 Question Id : 5531725445 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The seed production technology of the following fish is commercialised in India:

1. Milk fish
2. Mullet
3. Salmon
4. Seabass

Options :

55317221721. 1

55317221722. 2

55317221723. 3

55317221724. 4

Question Number : 132 Question Id : 5531725446 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Number of breeding individuals of a population contributing to formation of its next generation is termed as:

1. Breeding group population
2. Genetic group population
3. Effective population
4. Efficient population

Options :

55317221725. 1

55317221726. 2

55317221727. 3

55317221728. 4

**Question Number : 133 Question Id : 5531725447 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Captive breeding of sand lobsters was successfully carried out  
by:

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

**Options :**

55317221729. 1

55317221730. 2

55317221731. 3

55317221732. 4

**Question Number : 134 Question Id : 5531725448 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The hormone used in fish feminization is:

1. Testosterone
2. HCG
3. PMS
4. 17- $\beta$ - Estradiol

**Options :**

55317221733. 1

55317221734. 2

55317221735. 3

55317221736. 4

**Question Number : 135 Question Id : 5531725449 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Decapsulation of Artemia Cysts means:

1. Removal of head of Artemia
2. Removal of hard shell of Artemia cysts
3. Thorough cleaning of Artemia cysts
4. Disinfection of Artemia cysts

**Options :**

55317221737. 1

55317221738. 2

55317221739. 3

55317221740. 4

**Question Number : 136 Question Id : 5531725450 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The practice of adding cultured micro-organisms into the subsurface water for the purpose of biodegrading a specific soil and ground water contaminant is known as:

1. Bio-augmentation
2. Bio-stimulation
3. Phyto-remediation
4. Fortification

Options :

- 55317221741. 1
- 55317221742. 2
- 55317221743. 3
- 55317221744. 4

Question Number : 137 Question Id : 5531725451 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The site of protein synthesis in a cell is:

1. Mitochondria
2. Ribosome
3. Golgi bodies
4. Nucleolus

Options :

- 55317221745. 1
- 55317221746. 2
- 55317221747. 3
- 55317221748. 4

Question Number : 138 Question Id : 5531725452 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Root crops are usually rich in:

1. Fibre
2. Carbohydrate
3. Protein
4. Lipids

Options :

- 55317221749. 1
- 55317221750. 2
- 55317221751. 3
- 55317221752. 4

Question Number : 139 Question Id : 5531725453 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Induced fish breeding was successfully started in India on

1. 10<sup>th</sup> July 1957
2. 10<sup>th</sup> August 1957
3. 15<sup>th</sup> May 1960
4. 16<sup>th</sup> June 1960

Options :

- 55317221753. 1

55317221754. 2

55317221755. 3

55317221756. 4

**Question Number : 140 Question Id : 5531725454 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

In stomachless fish, protein digestion is aided by:

1. Alkaline Proteases
2. Proteases
3. Acidic proteases
4. Pepsinogen

**Options :**

55317221757. 1

55317221758. 2

55317221759. 3

55317221760. 4

**Question Number : 141 Question Id : 5531725455 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Megalopa is associated with:

1. Octopus
2. Crab
3. Starfish
4. Shrimp

**Options :**

55317221761. 1

55317221762. 2

55317221763. 3

55317221764. 4

**Question Number : 142 Question Id : 5531725456 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

One of the following is NOT a criteria for selection of species for culture:

1. Species with good FCR
2. Species with high growth rate
3. Species with prolific breeding
4. Species with disease resistance

**Options :**

55317221765. 1

55317221766. 2

55317221767. 3

55317221768. 4

**Question Number : 143 Question Id : 5531725457 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The bacteria responsible for oxidizing nitrite to nitrate in aquatic water bodies

1. Nitrosomonas
2. Nitrobacter
3. Lactobacillus
4. Basilaria

Options :

55317221769. 1

55317221770. 2

55317221771. 3

55317221772. 4

Question Number : 144 Question Id : 5531725458 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An inspection certificate issued by a competent Government Authority to show that a particular shipment has been treated to be free from harmful pest and plant diseases, is:

1. Best management practices
2. Phytosanitary certificate
3. Organic certificate
4. Quarantine certificate

Options :

55317221773. 1

55317221774. 2

55317221775. 3

55317221776. 4

Question Number : 145 Question Id : 5531725459 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

One of the largest breeding grounds for marine turtles in India is located at:

1. Odisha
2. Kerala
3. Gujarat
4. Tamil Nadu

Options :

55317221777. 1

55317221778. 2

55317221779. 3

55317221780. 4

Question Number : 146 Question Id : 5531725460 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fish that migrate from freshwater to marine waters for reproduction are known as

1. Anadromous
2. Catadromous
3. Amphidromous
4. Potamodromous

Options :

- 55317221781. 1
- 55317221782. 2
- 55317221783. 3
- 55317221784. 4

Question Number : 147 Question Id : 5531725461 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A process of evaluating likely environmental impact of a proposed development project, taking in to account inter related socio - economic, cultural and human - health impacts, both beneficial and adverse is called

1. Biosecurity
2. Best management practices
3. Environmental Impact Assessment (EIA)
4. Intellectual Property Rights (IPR)

Options :

- 55317221785. 1
- 55317221786. 2
- 55317221787. 3
- 55317221788. 4

Question Number : 148 Question Id : 5531725462 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Mahua oil cake contains toxic Ingredient:

1. Lectin
2. Gossypol
3. Rotenone
4. Saponin

Options :

- 55317221789. 1
- 55317221790. 2
- 55317221791. 3
- 55317221792. 4

Question Number : 149 Question Id : 5531725463 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Soap oil emulsion is used in fish nursery rearing to eradicate:

1. Weed fishes
2. Aquatic insects
3. Predatory fishes
4. Aquatic weeds

Options :

55317221793. 1

55317221794. 2

55317221795. 3

55317221796. 4

Question Number : 150 Question Id : 5531725464 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Methyl testosterone is a:

1. Cryo-preservative
2. Inducing agent
3. Androgen
4. Estrogen

Options :

55317221797. 1

55317221798. 2

55317221799. 3

55317221800. 4

Question Number : 151 Question Id : 5531725465 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Major contribution to India's Inland fish production is from:

1. Catfishes
2. Tilapia
3. Carps
4. Murrels

Options :

55317221801. 1

55317221802. 2

55317221803. 3

55317221804. 4

Question Number : 152 Question Id : 5531725466 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Biofloc technology is developed mainly to culture:

1. Fish
2. Shrimp
3. Crab
4. Oyster

Options :

55317221805. 1

55317221806. 2

55317221807. 3

55317221808. 4

**Question Number : 153 Question Id : 5531725467 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

When environmental variation is high then heritability of the trait will be:

1. Low
2. High
3. Un affected
4. More than repeatability

**Options :**

55317221809. 1

55317221810. 2

55317221811. 3

55317221812. 4

**Question Number : 154 Question Id : 5531725468 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Thyroid hormone secretion is stimulated by:

1. LSH
2. TSH
3. GIH
4. HCG

**Options :**

55317221813. 1

55317221814. 2

55317221815. 3

55317221816. 4

**Question Number : 155 Question Id : 5531725469 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Fish culture got momentum in Madras State in 1911 under the supervision of:

1. V.G Jhingran
2. T.V.R. Pillay
3. H. Chaudhuri
4. H.B. Wilson

**Options :**

55317221817. 1

55317221818. 2

55317221819. 3

55317221820. 4

**Question Number : 156 Question Id : 5531725470 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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



The colour of the towing light is:

1. Yellow
2. Red
3. Green
4. Blue

Options :

- 55317221821. 1
- 55317221822. 2
- 55317221823. 3
- 55317221824. 4

Question Number : 157 Question Id : 5531725471 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A falling barometer indicates:

1. Low pressure
2. High pressure
3. Cold weather
4. Dry weather

Options :

- 55317221825. 1
- 55317221826. 2
- 55317221827. 3
- 55317221828. 4

Question Number : 158 Question Id : 5531725472 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Colour of a lifebuoy is:

1. Green
2. Red
3. Orange
4. White & Red

Options :

- 55317221829. 1
- 55317221830. 2
- 55317221831. 3
- 55317221832. 4

Question Number : 159 Question Id : 5531725473 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The cathode ray is an important part of:

1. GPS
2. Radar
3. Radio telephony
4. Radio direction finder

Options :

- 55317221833. 1
- 55317221834. 2

55317221835. 3

55317221836. 4

**Question Number : 160 Question Id : 5531725474 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The location of a particular gene on a chromosome is termed as:

1. Allele
2. Locus
3. Intron
4. Exon

**Options :**

55317221837. 1

55317221838. 2

55317221839. 3

55317221840. 4

**Question Number : 161 Question Id : 5531725475 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

The oceanic tunas are normally fished using the following methods:

1. Trawling
2. Gillnet
3. Purse- seining
4. Pole and lining

**Options :**

55317221841. 1

55317221842. 2

55317221843. 3

55317221844. 4

**Question Number : 162 Question Id : 5531725476 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Fishing gear commonly used to catch mackerels in Konkan coast

1. Trawl net
2. Hook and line
3. Dol net
4. Rampani net

**Options :**

55317221845. 1

55317221846. 2

55317221847. 3

55317221848. 4

**Question Number : 163 Question Id : 5531725477 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

An electronic detection instrument widely used to detect fish in the oceans:

1. Net sonde
2. Radar
3. Echo sounder
4. GPS

Options :

- 55317221849. 1
- 55317221850. 2
- 55317221851. 3
- 55317221852. 4

Question Number : 164 Question Id : 5531725478 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Restriction endonucleases are also called

1. Molecular stitchers
2. Polymerase
3. Molecular scissors
4. Molecular activators

Options :

- 55317221853. 1
- 55317221854. 2
- 55317221855. 3
- 55317221856. 4

Question Number : 165 Question Id : 5531725479 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Dol net is most commonly used to catch:

1. Mackerel
2. Sardines
3. Shrimps
4. Bombay duck

Options :

- 55317221857. 1
- 55317221858. 2
- 55317221859. 3
- 55317221860. 4

Question Number : 166 Question Id : 5531725480 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The set of all mRNA produced in a cell at a particular point of time is called:

1. Proteome
2. Genome
3. Transcriptome
4. Metabolome

Options :

- 55317221861. 1
- 55317221862. 2
- 55317221863. 3
- 55317221864. 4

Question Number : 167 Question Id : 5531725481 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A Seafood allergenic compound:

- 1. Parvalbumin
- 2. Cathepsin
- 3. Actin
- 4. Troponin

Options :

- 55317221865. 1
- 55317221866. 2
- 55317221867. 3
- 55317221868. 4

Question Number : 168 Question Id : 5531725482 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The temperature of liquid nitrogen is nearly:

- 1. -90 °C
- 2. -120 °C
- 3. -150 °C
- 4. -190 °C

Options :

- 55317221869. 1
- 55317221870. 2
- 55317221871. 3
- 55317221872. 4

Question Number : 169 Question Id : 5531725483 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In protein estimation by Kjeldhal method, organic nitrogen is digested with sulphuric acid in the presence of catalyst. This is

- 1. Oxidation reaction
- 2. Condensation reaction
- 3. Reduction reaction
- 4. Hydrolysis reaction

Options :

- 55317221873. 1
- 55317221874. 2
- 55317221875. 3
- 55317221876. 4

Question Number : 170 Question Id : 5531725484 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Among the following which one is a non- essential amino acid:

1. Arginine
2. Histidine
3. Glycine
4. Valine

Options :

55317221877. 1

55317221878. 2

55317221879. 3

55317221880. 4

Question Number : 171 Question Id : 5531725485 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fish is a poor source of:

1. Retinol
2. Calciferol
3. Ascorbic acid
4. Folic acid

Options :

55317221881. 1

55317221882. 2

55317221883. 3

55317221884. 4

Question Number : 172 Question Id : 5531725486 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Microsatellites are tandemly repeated DNA sequences having a unit length of:

1. 1-6 bp
2. 6-10 bp
3. 10-60 bp
4. 100-200bp

Options :

55317221885. 1

55317221886. 2

55317221887. 3

55317221888. 4

Question Number : 173 Question Id : 5531725487 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The Isoelectric point of fish myofibrillar protein is:

1. 7.5
2. 5.5
3. 6.5
4. 3.5

Options :

- 55317221889. 1
- 55317221890. 2
- 55317221891. 3
- 55317221892. 4

Question Number : 174 Question Id : 5531725488 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In selective breeding programme, the breeding value can be simply defined as:

1. Breeding performance of the species
2. *Heritability* /Genotypic value
3. Heritability x phenotypic value
4. Phenotypic value x Number of eggs produced

Options :

- 55317221893. 1
- 55317221894. 2
- 55317221895. 3
- 55317221896. 4

Question Number : 175 Question Id : 5531725489 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Iodine value of fish oil is:

1. <100
2. 100-130
3. 130-200
4. 25-50

Options :

- 55317221897. 1
- 55317221898. 2
- 55317221899. 3
- 55317221900. 4

Question Number : 176 Question Id : 5531725490 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Grade – I fish meal contains, protein level of:

1. 50%
2. 60%
3. 90%
4. 40%

Options :

- 55317221901. 1
- 55317221902. 2
- 55317221903. 3
- 55317221904. 4

Question Number : 177 Question Id : 5531725491 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The acceptable limit of Total Volatile Base Nitrogen (TVBN)  
in fish is:

- 1. 35-40 mg%
- 2. 10-15 mg%
- 3. 35-40mg N/100g
- 4. 10-15mg N/100g

Options :

- 55317221905. 1
- 55317221906. 2
- 55317221907. 3
- 55317221908. 4

Question Number : 178 Question Id : 5531725492 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The per capita consumption of fish in India is estimated to  
be:

- 1. 9.0 kg
- 2. 18.0 kg
- 3. 20.0 kg
- 4. 30.0 kg

Options :

- 55317221909. 1
- 55317221910. 2
- 55317221911. 3
- 55317221912. 4

Question Number : 179 Question Id : 5531725493 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

A step like structure constructed between the crest & toe of  
dyke is called

- 1. Dam
- 2. Sluice
- 3. Berm
- 4. Spillway

Options :

- 55317221913. 1
- 55317221914. 2
- 55317221915. 3
- 55317221916. 4

Question Number : 180 Question Id : 5531725494 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

FAO estimates post-harvest losses of fish at about:

1. 35%
2. 10%
3. 50%
4. 5%

Options :

55317221917. 1

55317221918. 2

55317221919. 3

55317221920. 4

Question Number : 181 Question Id : 5531725495 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The following packaging material is used for sterilization of fish products

1. Polypropylene
2. Polyethylene
3. Polystyrene/ polyester
4. Nylon

Options :

55317221921. 1

55317221922. 2

55317221923. 3

55317221924. 4

Question Number : 182 Question Id : 5531725496 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Fish spermatozoa is preserved by cryopreservation using

1. Solid CO<sub>2</sub>
2. Liquid Hydrogen
3. Liquid CO<sub>2</sub>
4. Liquid Nitrogen

Options :

55317221925. 1

55317221926. 2

55317221927. 3

55317221928. 4

Question Number : 183 Question Id : 5531725497 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1



The permissible limit of salmonella bacteria in seafood exported to foreign countries is

1.  $1.0 \times 10^2$  cfu/g
2. Zero cfu/g
3.  $5 \times 10^3$  cfu/g
4.  $2.0 \times 10^5$  cfu/g

Options :

55317221929. 1

55317221930. 2

55317221931. 3

55317221932. 4

Question Number : 184 Question Id : 5531725498 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The acid-fast stain technique is particularly useful for detecting species of the genus

1. Staphylococcus sp.
2. Mycobacterium sp.
3. Vibrio sp.
4. Streptococcus sp.

Options :

55317221933. 1

55317221934. 2

55317221935. 3

55317221936. 4

Question Number : 185 Question Id : 5531725499 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Nori is prepared from:

1. Shell fish
2. Sea weed
3. Trash fish
4. Raw tuna

Options :

55317221937. 1

55317221938. 2

55317221939. 3

55317221940. 4

Question Number : 186 Question Id : 5531725500 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Insulin is a by-product obtained from which organ of fish:

1. Gall bladder
2. Pancreas
3. Liver
4. Kidney

Options :

- 55317221941. 1
- 55317221942. 2
- 55317221943. 3
- 55317221944. 4

Question Number : 187 Question Id : 5531725501 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Packaging that provides an inert barrier between the product and the outside environment is known as:

1. Active packaging
2. Smart packaging
3. Intelligent packaging
4. Edible packaging

Options :

- 55317221945. 1
- 55317221946. 2
- 55317221947. 3
- 55317221948. 4

Question Number : 188 Question Id : 5531725502 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The spores of which of the following mesophilic organism has high heat resistance:

1. *C. botulinum*
2. *C. sporogenes*
3. *C. nigrificans*
4. *L. monocytogenes*

Options :

- 55317221949. 1
- 55317221950. 2
- 55317221951. 3
- 55317221952. 4

Question Number : 189 Question Id : 5531725503 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Number of degrees of temperature change required to make 10-fold reduction of initial population of microorganism in a given food medium is termed as

1. F value
2. D value
3. Z value
4. Cook value

**Options :**

55317221953. 1

55317221954. 2

55317221955. 3

55317221956. 4

**Question Number : 190 Question Id : 5531725504 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

GIFT is a selective breeding program associated with the following group

1. Rohu
2. Salmon
3. Tilapia
4. Seabass

**Options :**

55317221957. 1

55317221958. 2

55317221959. 3

55317221960. 4

**Question Number : 191 Question Id : 5531725505 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

Chlorine levels in wash water used during processing are:

1. Not a hazard
2. A control point
3. A control measure
4. A corrective action

**Options :**

55317221961. 1

55317221962. 2

55317221963. 3

55317221964. 4

**Question Number : 192 Question Id : 5531725506 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

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

A modern method that can be used for sterilization of water in aqua-hatcheries is:

1. UV radiation
2. Chlorination
3. Liming
4. None of the above

Options :

- 55317221965. 1
- 55317221966. 2
- 55317221967. 3
- 55317221968. 4

Question Number : 193 Question Id : 5531725507 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Acceptable limit of trimethylamine (TMA) in marine fish is

1. 10-15 mg/100g
2. 35-45 mg/100g
3. 45 – 60 mg/100g
4. 60 – 80 mg/100g

Options :

- 55317221969. 1
- 55317221970. 2
- 55317221971. 3
- 55317221972. 4

Question Number : 194 Question Id : 5531725508 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Bulk freezing at sea is usually carried out using:

1. Horizontal plate freezer
2. Vertical plate freezer
3. Air blast freezer
4. Immersion freezing

Options :

- 55317221973. 1
- 55317221974. 2
- 55317221975. 3
- 55317221976. 4

Question Number : 195 Question Id : 5531725509 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The rate of heat transfer of a material is known as:

1. Thermal conductivity
2. Thermal diffusivity
3. Specific heat
4. Latent heat

Options :

55317221977. 1  
55317221978. 2  
55317221979. 3  
55317221980. 4

**Question Number : 196 Question Id : 5531725510 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

White spot disease in shrimps is caused by

1. WSSV
2. MBV
3. Yellowhead virus
4. Baculovirus

**Options :**

55317221981. 1  
55317221982. 2  
55317221983. 3  
55317221984. 4

**Question Number : 197 Question Id : 5531725511 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

In a tropical country, after catching, the fish will start spoiling

1. Within 6-12 hrs
2. Within 12-20 hrs
3. Within 20-40 hrs
4. Within 40-70 hrs

**Options :**

55317221985. 1  
55317221986. 2  
55317221987. 3  
55317221988. 4

**Question Number : 198 Question Id : 5531725512 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

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

Ratio of gas mixture to fish in modified atmospheric packaging is:

1. 3:1 (v/v)
2. 2:1 (v/v)
3. 1:1 (v/v)
4. 1:3 (v/v)

**Options :**

55317221989. 1  
55317221990. 2  
55317221991. 3  
55317221992. 4

Question Number : 199 Question Id : 5531725513 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Gossypol is found in:

1. Soya seed
2. Cotton seed
3. Fish meal
4. Rice bran

Options :

55317221993. 1

55317221994. 2

55317221995. 3

55317221996. 4

Question Number : 200 Question Id : 5531725514 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In comparison to fish feed, stability of shrimp feed should be

1. Lower
2. Higher
3. Irrelevant
4. Same

Options :

55317221997. 1

55317221998. 2

55317221999. 3

55317222000. 4