

National Testing Agency

Question Paper Name :	Fish Health Management or Aquatic Animal Health Management 23rd Sep 2020 Shift 2
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Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes

Fish Health Management or Aquatic Animal Health Management

Group Number :	1
Group Id :	71087057
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	480
Is this Group for Examiner? :	No

Part A General Knowledge

Section Id :	710870169
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	80
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870169
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 7108706781 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027121. 1
- 71087027122. 2
- 71087027123. 3
- 71087027124. 4

Question Number : 2 Question Id : 7108706782 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

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

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

Options :

- 71087027125. 1
- 71087027126. 2
- 71087027127. 3
- 71087027128. 4

Question Number : 3 Question Id : 7108706783 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Indian agriculture is typically characterized as

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

Options :

- 71087027129. 1

71087027130. 2

71087027131. 3

71087027132. 4

Question Number : 4 Question Id : 7108706784 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027133. 1

71087027134. 2

71087027135. 3

71087027136. 4

Question Number : 5 Question Id : 7108706785 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Given below are two statements

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

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

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

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

Options :

- 71087027137. 1
- 71087027138. 2
- 71087027139. 3
- 71087027140. 4

Question Number : 6 Question Id : 7108706786 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027141. 1
- 71087027142. 2
- 71087027143. 3
- 71087027144. 4

Question Number : 7 Question Id : 7108706787 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027145. 1
- 71087027146. 2
- 71087027147. 3
- 71087027148. 4

Question Number : 8 Question Id : 7108706788 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027149. 1

71087027150. 2

71087027151. 3

71087027152. 4

Question Number : 9 Question Id : 7108706789 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027153. 1

71087027154. 2

71087027155. 3

71087027156. 4

Question Number : 10 Question Id : 7108706790 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027157. 1

71087027158. 2

71087027159. 3

71087027160. 4

Question Number : 11 Question Id : 7108706791 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027161. 1

71087027162. 2

71087027163. 3

71087027164. 4

Question Number : 12 Question Id : 7108706792 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027165. 1

71087027166. 2

71087027167. 3

71087027168. 4

Question Number : 13 Question Id : 7108706793 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027169. 1

71087027170. 2

71087027171. 3

71087027172. 4

Question Number : 14 Question Id : 7108706794 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027173. 1
- 71087027174. 2
- 71087027175. 3
- 71087027176. 4

Question Number : 15 Question Id : 7108706795 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Where is the headquarters of European Union?

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

Options :

- 71087027177. 1
- 71087027178. 2
- 71087027179. 3
- 71087027180. 4

Question Number : 16 Question Id : 7108706796 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027181. 1
- 71087027182. 2
- 71087027183. 3
- 71087027184. 4

Question Number : 17 Question Id : 7108706797 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027185. 1
- 71087027186. 2
- 71087027187. 3
- 71087027188. 4

Question Number : 18 Question Id : 7108706798 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027189. 1
- 71087027190. 2
- 71087027191. 3
- 71087027192. 4

Question Number : 19 Question Id : 7108706799 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Economic liberalization in India started with

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

Options :

- 71087027193. 1
- 71087027194. 2
- 71087027195. 3
- 71087027196. 4

Question Number : 20 Question Id : 7108706800 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027197. 1

71087027198. 2

71087027199. 3

71087027200. 4

Part B Core Fishery Science-II

Section Id :	710870170
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870170
Question Shuffling Allowed :	Yes

Question Number : 21 Question Id : 7108706801 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027201. 1

71087027202. 2

71087027203. 3

71087027204. 4

Question Number : 22 Question Id : 7108706802 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Identify the correct statement(s) among the following

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

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

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

Options :

71087027205. 1

71087027206. 2

71087027207. 3

71087027208. 4

Question Number : 23 Question Id : 7108706803 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Rope culture is more popularly used in the farming of

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

Options :

- 71087027209. 1
- 71087027210. 2
- 71087027211. 3
- 71087027212. 4

Question Number : 24 Question Id : 7108706804 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027213. 1
- 71087027214. 2
- 71087027215. 3
- 71087027216. 4

Question Number : 25 Question Id : 7108706805 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Identify the correct statements from the following

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

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

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

Options :

- 71087027217. 1
- 71087027218. 2
- 71087027219. 3
- 71087027220. 4

Question Number : 26 Question Id : 7108706806 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027221. 1

71087027222. 2

71087027223. 3

71087027224. 4

Question Number : 27 Question Id : 7108706807 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027225. 1

71087027226. 2

71087027227. 3

71087027228. 4

Question Number : 28 Question Id : 7108706808 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027229. 1

71087027230. 2

71087027231. 3

71087027232. 4

Question Number : 29 Question Id : 7108706809 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027233. 1

71087027234. 2

71087027235. 3

71087027236. 4

Question Number : 30 Question Id : 7108706810 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following fishes reproduces through parthenogenesis?

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

Options :

71087027237. 1

71087027238. 2

71087027239. 3

71087027240. 4

Question Number : 31 Question Id : 7108706811 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027241. 1
71087027242. 2
71087027243. 3
71087027244. 4

Question Number : 32 Question Id : 7108706812 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027245. 1
71087027246. 2
71087027247. 3
71087027248. 4

Question Number : 33 Question Id : 7108706813 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027249. 1

71087027250. 2

71087027251. 3

71087027252. 4

Question Number : 34 Question Id : 7108706814 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The common larval stage seen in the marine bivalve molluscs is

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

Options :

71087027253. 1

71087027254. 2

71087027255. 3

71087027256. 4

Question Number : 35 Question Id : 7108706815 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027257. 1
- 71087027258. 2
- 71087027259. 3
- 71087027260. 4

Question Number : 36 Question Id : 7108706816 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027261. 1
- 71087027262. 2
- 71087027263. 3
- 71087027264. 4

Question Number : 37 Question Id : 7108706817 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027265. 1
- 71087027266. 2
- 71087027267. 3
- 71087027268. 4

Question Number : 38 Question Id : 7108706818 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Gold fish eggs are

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

Options :

- 71087027269. 1
- 71087027270. 2
- 71087027271. 3
- 71087027272. 4

Question Number : 39 Question Id : 7108706819 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The veliger larval stage is seen in the group

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

Options :

- 71087027273. 1
- 71087027274. 2
- 71087027275. 3
- 71087027276. 4

Question Number : 40 Question Id : 7108706820 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Culture-based fisheries are more applicable to

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

Options :

- 71087027277. 1
- 71087027278. 2
- 71087027279. 3
- 71087027280. 4

Question Number : 41 Question Id : 7108706821 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027281. 1
- 71087027282. 2
- 71087027283. 3
- 71087027284. 4

Question Number : 42 Question Id : 7108706822 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027285. 1
- 71087027286. 2
- 71087027287. 3
- 71087027288. 4

Question Number : 43 Question Id : 7108706823 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027289. 1
- 71087027290. 2
- 71087027291. 3
- 71087027292. 4

Question Number : 44 Question Id : 7108706824 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Function of hepatopancreas of shrimp is

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

Options :

- 71087027293. 1
- 71087027294. 2
- 71087027295. 3
- 71087027296. 4

Question Number : 45 Question Id : 7108706825 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027297. 1
71087027298. 2
71087027299. 3
71087027300. 4

Question Number : 46 Question Id : 7108706826 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

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

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

71087027301. 1
71087027302. 2
71087027303. 3

71087027304. 4

Question Number : 47 Question Id : 7108706827 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

Assertion A: Shrimp feeds are manufactured by an extrusion process

Reason R: Extruded pellets have more water stability

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

71087027305. 1

71087027306. 2

71087027307. 3

71087027308. 4

Question Number : 48 Question Id : 7108706828 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

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

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

71087027309. 1

71087027310. 2

71087027311. 3

71087027312. 4

Question Number : 49 Question Id : 7108706829 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

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

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

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

71087027313. 1

71087027314. 2

71087027315. 3

71087027316. 4

Question Number : 50 Question Id : 7108706830 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

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

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

1. Both **A** and **R** are true and **R** is the correct explanation of **A**
2. Both **A** and **R** are true but **R** is **NOT** the correct explanation of **A**
3. **A** is true but **R** is false
4. **A** is false but **R** is true

Options :

- 71087027317. 1
- 71087027318. 2
- 71087027319. 3
- 71087027320. 4

Question Number : 51 Question Id : 7108706831 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027321. 1
- 71087027322. 2

71087027323. 3

71087027324. 4

Question Number : 52 Question Id : 7108706832 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Saturation of both oxygen and nitrogen in water may cause

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

Options :

71087027325. 1

71087027326. 2

71087027327. 3

71087027328. 4

Question Number : 53 Question Id : 7108706833 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027329. 1

71087027330. 2

71087027331. 3

71087027332. 4

Question Number : 54 Question Id : 7108706834 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027333. 1
- 71087027334. 2
- 71087027335. 3
- 71087027336. 4

Question Number : 55 Question Id : 7108706835 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027337. 1
- 71087027338. 2
- 71087027339. 3
- 71087027340. 4

Question Number : 56 Question Id : 7108706836 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027341. 1

71087027342. 2

71087027343. 3

71087027344. 4

Question Number : 57 Question Id : 7108706837 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

In fish, toxicity of oxidized fish oil leads to

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

Options :

71087027345. 1

71087027346. 2

71087027347. 3

71087027348. 4

Question Number : 58 Question Id : 7108706838 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is

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

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027349. 1
- 71087027350. 2
- 71087027351. 3
- 71087027352. 4

Question Number : 59 Question Id : 7108706839 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027353. 1
- 71087027354. 2
- 71087027355. 3
- 71087027356. 4

Question Number : 60 Question Id : 7108706840 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The melting point of paraffin wax used in histology is

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

Options :

71087027357. 1
71087027358. 2
71087027359. 3
71087027360. 4

Question Number : 61 Question Id : 7108706841 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027361. 1
71087027362. 2
71087027363. 3
71087027364. 4

Question Number : 62 Question Id : 7108706842 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The pore size of the membrane filter used in bacteriology is

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

Options :

- 71087027365. 1
- 71087027366. 2
- 71087027367. 3
- 71087027368. 4

Question Number : 63 Question Id : 7108706843 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

- 71087027369. 1
- 71087027370. 2
- 71087027371. 3
- 71087027372. 4

Question Number : 64 Question Id : 7108706844 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027373. 1
71087027374. 2
71087027375. 3
71087027376. 4

Question Number : 65 Question Id : 7108706845 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In fish, the antigen presenting cells are

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

Options :

71087027377. 1
71087027378. 2
71087027379. 3
71087027380. 4

Question Number : 66 Question Id : 7108706846 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The IgM has a molecular weight of

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

Options :

71087027381. 1
71087027382. 2
71087027383. 3
71087027384. 4

Question Number : 67 Question Id : 7108706847 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027385. 1
71087027386. 2
71087027387. 3
71087027388. 4

Question Number : 68 Question Id : 7108706848 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027389. 1
71087027390. 2
71087027391. 3
71087027392. 4

Question Number : 69 Question Id : 7108706849 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027393. 1
71087027394. 2
71087027395. 3
71087027396. 4

Question Number : 70 Question Id : 7108706850 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

71087027397. 1
71087027398. 2
71087027399. 3
71087027400. 4

Part C Fish Health Management or Aquatic Animal Health Management

Section Id :	710870171
Section Number :	3
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	50
Number of Questions to be attempted :	50
Section Marks :	200
Display Number Panel :	Yes
Group All Questions :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	710870171
Question Shuffling Allowed :	Yes

Question Number : 71 Question Id : 7108706851 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The dominant environmental factor controlling the rate of wound healing in fish is

1. pH
2. Dissolved gases
3. Hardness
4. Temperature

Options :

- 71087027401. 1
- 71087027402. 2
- 71087027403. 3
- 71087027404. 4

Question Number : 72 Question Id : 7108706852 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is the partial or complete wasting away of a part of the body?

1. Dystrophy
2. Hypertrophy
3. Atrophy
4. Dropsy

Options :

- 71087027405. 1
- 71087027406. 2
- 71087027407. 3
- 71087027408. 4

Question Number : 73 Question Id : 7108706853 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is used for softening and acidifying freshwater?

1. Lime
2. Zeolite
3. Dolomite
4. Peat

Options :

- 71087027409. 1
- 71087027410. 2
- 71087027411. 3
- 71087027412. 4

Question Number : 74 Question Id : 7108706854 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In aquatic animals, excretion of chemicals to the aquatic environment can occur through

1. Kidney
2. Skin
3. Gills
4. Both Kidney and Gills

Options :

- 71087027413. 1
- 71087027414. 2
- 71087027415. 3
- 71087027416. 4

Question Number : 75 Question Id : 7108706855 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

Endocrine disrupting chemicals affect the aquatic animals mainly through

1. Agonist process
2. Competitive exclusion
3. Antagonist process
4. Both Agonist and Antagonist processes

Options :

- 71087027417. 1
- 71087027418. 2
- 71087027419. 3
- 71087027420. 4

Question Number : 76 Question Id : 7108706856 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In shrimp, soft shell syndrome is caused by

1. Toxicants
2. Chitinoclastic bacteria
3. Variations in environmental factors
4. Protozoan infestation

Options :

- 71087027421. 1
- 71087027422. 2
- 71087027423. 3
- 71087027424. 4

Question Number : 77 Question Id : 7108706857 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The chemical used to control water quality parameters, in culture pond is

1. Rotinone
2. Copper sulphate
3. Potassium permanganate
4. EDTA

Options :

- 71087027425. 1
- 71087027426. 2
- 71087027427. 3
- 71087027428. 4

Question Number : 78 Question Id : 7108706858 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following endocrine systems of fish has diffused structure?

1. Chromaffin body
2. Thyroid
3. Pituitary
4. Interrenal

Options :

- 71087027429. 1
- 71087027430. 2
- 71087027431. 3
- 71087027432. 4

Question Number : 79 Question Id : 7108706859 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The gills are the primary site of infestation for

1. *Clonorchis*
2. *Amyloodinium*
3. *Argulus*
4. *Cryptosporidium*

Options :

- 71087027433. 1
- 71087027434. 2
- 71087027435. 3
- 71087027436. 4

Question Number : 80 Question Id : 7108706860 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Any malignant tumour of epithelial origin is a

1. Carcinoma
2. Fibroma
3. Palliloma
4. Granuloma

Options :

- 71087027437. 1
- 71087027438. 2
- 71087027439. 3
- 71087027440. 4

Question Number : 81 Question Id : 7108706861 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following amino acid deficiency cause cataract in fish?

1. Histidine
2. Glycine
3. Cysteine
4. Methionine

Options :

- 71087027441. 1
- 71087027442. 2
- 71087027443. 3
- 71087027444. 4

Question Number : 82 Question Id : 7108706862 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

This disease was first reported in farmed ayu (*Plecoglossus altevelis*) in Japan in 1971

1. Mycotic granuloma (EUS)
2. IPNV
3. KHV
4. Branchiomycosis

Options :

- 71087027445. 1
- 71087027446. 2
- 71087027447. 3
- 71087027448. 4

Question Number : 83 Question Id : 7108706863 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Peritonitis is a feature of infections by

1. *Mycobacterium neoaurum*
2. *Vagococcus salmoninarum*
3. *Aeromonas salmonicida*
4. Both *Mycobacterium neoaurum* and *Vagococcus salmoninarum*

Options :

- 71087027449. 1
- 71087027450. 2
- 71087027451. 3
- 71087027452. 4

Question Number : 84 Question Id : 7108706864 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Enterocryptozoon hepatopenaei is the causative agent of

1. HPM
2. WFS
3. AHPND
4. PKD

Options :

- 71087027453. 1
- 71087027454. 2
- 71087027455. 3
- 71087027456. 4

Question Number : 85 Question Id : 7108706865 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The U-V rays (254 nm) at what energy levels are used to disinfect VNN/VER viruses in the water?

1. 10-50 mJ/cm²
2. 125-200 mJ/cm²
3. 50-100 mJ/cm²
4. 250-300 mJ/cm²

Options :

71087027457. 1
71087027458. 2
71087027459. 3
71087027460. 4

Question Number : 86 Question Id : 7108706866 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The anaerobic fish bacterial pathogen of GIT is

1. *Eubacterium tarantellae*
2. *Clostridium perfringens*
3. *Clostridium botulinum*
4. *Bifidobacterium* sp.

Options :

71087027461. 1
71087027462. 2
71087027463. 3
71087027464. 4

Question Number : 87 Question Id : 7108706867 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is NOT an OIE listed disease?

1. CyHV2
2. AHPND
3. EUS
4. CyHV3 (KHV)

Options :

- 71087027465. 1
- 71087027466. 2
- 71087027467. 3
- 71087027468. 4

Question Number : 88 Question Id : 7108706868 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The cause of Xenoma in fish

1. Brachyurans
2. Monogeneans
3. Microsporidians
4. Myxozoans

Options :

- 71087027469. 1
- 71087027470. 2
- 71087027471. 3
- 71087027472. 4

Question Number : 89 Question Id : 7108706869 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The smallest shrimp virus is

1. IHNV
2. MBV
3. WSV
4. YHV

Options :

71087027473. 1
71087027474. 2
71087027475. 3
71087027476. 4

Question Number : 90 Question Id : 7108706870 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Meningoencephalitis in tilapia is caused by

1. *Pseudomonas aeruginosa*
2. *Streptococcus agalactiae*
3. *Edwardsiella piscicida*
4. *Carnobacterium piscicola*

Options :

71087027477. 1
71087027478. 2
71087027479. 3
71087027480. 4

Question Number : 91 Question Id : 7108706871 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The invertebrate host of *Myxobolus cerebralis* is

1. *Nereis* sp.
2. *Tubifex tubifex*
3. *Dero digitata*
4. *Branchiura sowerbyi*

Options :

- 71087027481. 1
- 71087027482. 2
- 71087027483. 3
- 71087027484. 4

Question Number : 92 Question Id : 7108706872 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The actinospore type of *Ceratomyxa shasta* is

1. Tetraactinomyxon
2. Triactinomyxon
3. Aurantiaactinomyxon
4. Raabeia

Options :

- 71087027485. 1
- 71087027486. 2
- 71087027487. 3
- 71087027488. 4

Question Number : 93 Question Id : 7108706873 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following cell lines developed first from fish?

1. CHSE-214
2. RTG-2
3. EPC
4. FHM

Options :

71087027489. 1
71087027490. 2
71087027491. 3
71087027492. 4

Question Number : 94 Question Id : 7108706874 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following confers a number of paramount advantages to parasitic organisms?

1. Cercaria – type spines
2. Filamentous glycocalyx
3. Syncytial tegument
4. Secondary glands

Options :

71087027493. 1
71087027494. 2
71087027495. 3
71087027496. 4

Question Number : 95 Question Id : 7108706875 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The causative agent of Ligulosis (*Ligula* sp.) hatch out into which kind of free-swimming larva?

1. Plerocercoid
2. Proceroid
3. Caracidia
4. Trophont

Options :

- 71087027497. 1
- 71087027498. 2
- 71087027499. 3
- 71087027500. 4

Question Number : 96 Question Id : 7108706876 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

In fish, gyrodactylosis is characterized by

1. Fading of the normal body colour
2. Dropping of scales
3. Excessive mucus secretion
4. All of the above

Options :

- 71087027501. 1
- 71087027502. 2
- 71087027503. 3
- 71087027504. 4

Question Number : 97 Question Id : 7108706877 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which of the following is not suitable for the detection of soluble antigens?

1. ELISA
2. Gel diffusion assay
3. Slide agglutination
4. RIA

Options :

- 71087027505. 1
- 71087027506. 2
- 71087027507. 3
- 71087027508. 4

Question Number : 98 Question Id : 7108706878 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The analysis of melting curve is important for

1. Next generation sequencing
2. TaqMan qPCR
3. RT PCR
4. SYBR green qPCR

Options :

- 71087027509. 1
- 71087027510. 2
- 71087027511. 3
- 71087027512. 4

Question Number : 99 Question Id : 7108706879 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The DNA polymerase-1 is also referred to as

1. Bst polymerase
2. Klenaw fragment
3. Taq polymerase
4. DNA ligase

Options :

- 71087027513. 1
- 71087027514. 2
- 71087027515. 3
- 71087027516. 4

Question Number : 100 Question Id : 7108706880 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The culture medium used for the isolation of *Flavobacterium columnare* is

1. Rimler-Shotts agar
2. Cytophaga agar
3. Tryptic soya agar
4. EMB agar

Options :

- 71087027517. 1
- 71087027518. 2
- 71087027519. 3
- 71087027520. 4

Question Number : 101 Question Id : 7108706881 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The medium used for the isolation, growth and sporulation of *Aphanomyces invadans* is

1. Potato dextrose agar
2. Corn meal agar
3. Chloramphenicol Rose Bengal agar
4. Glucose peptone yeast (GPY) agar

Options :

- 71087027521. 1
- 71087027522. 2
- 71087027523. 3
- 71087027524. 4

Question Number : 102 Question Id : 7108706882 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The presumptive diagnosis of which one of the following diseases is based on the presence of relatively shallow lesions that have broad aseptate hyphae?

1. Branchiomycosis
2. EUS
3. Saprolegniasis
4. Larval mycosis

Options :

- 71087027525. 1
- 71087027526. 2
- 71087027527. 3
- 71087027528. 4

Question Number : 103 Question Id : 7108706883 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The recommended method for the targeted surveillance of AHPND is

1. Single step PCR
2. SYBY green qPCR
3. Nested PCR
4. Real time PCR

Options :

- 71087027529. 1
- 71087027530. 2
- 71087027531. 3
- 71087027532. 4

Question Number : 104 Question Id : 7108706884 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The most commonly used medium for fish cell culture is

1. Baker's medium
2. White's medium
3. Eagle's minimal essential medium
4. RPMI-1640

Options :

- 71087027533. 1
- 71087027534. 2
- 71087027535. 3
- 71087027536. 4

Question Number : 105 Question Id : 7108706885 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The lysozyme variant(s) of fish

1. Lysozyme C
2. Lysozyme G
3. Lysozyme A
4. Both Lysozyme C and Lysozyme G

Options :

71087027537. 1
71087027538. 2
71087027539. 3
71087027540. 4

Question Number : 106 Question Id : 7108706886 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The numbers of receptor molecules present on a B-cell, are in the range of

1. 10^2-10^4
2. 10^4-10^5
3. 10^5-10^6
4. 10^7-10^8

Options :

71087027541. 1
71087027542. 2
71087027543. 3
71087027544. 4

Question Number : 107 Question Id : 7108706887 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The detoxifying enzyme for reactive oxygen intermediates is

1. Superoxide dismutase
2. Catalase
3. Amidinotransferase
4. Methyltransferase

Options :

- 71087027545. 1
- 71087027546. 2
- 71087027547. 3
- 71087027548. 4

Question Number : 108 Question Id : 7108706888 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The end product of crustacean PPO system is

1. Opsonin
2. Mannose
3. Melanin
4. Melanoldehyde

Options :

- 71087027549. 1
- 71087027550. 2
- 71087027551. 3
- 71087027552. 4

Question Number : 109 Question Id : 7108706889 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The main envelope protein responsible for white spot viral infection in shrimp is

1. VP 18
2. VP 91
3. VP 82
4. VP 28

Options :

- 71087027553. 1
- 71087027554. 2
- 71087027555. 3
- 71087027556. 4

Question Number : 110 Question Id : 7108706890 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Emigration of phagocytes from capillary endothelial cells into the tissues during inflammation is called

1. Margination
2. Phagocytosis
3. Exocytosis
4. Diapedesis

Options :

- 71087027557. 1
- 71087027558. 2
- 71087027559. 3
- 71087027560. 4

Question Number : 111 Question Id : 7108706891 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following is a potent vasodilator that is thought to aid in parasite evasion of the host immune response?

1. Prostaglandin E2
2. Acetylcholine esterase
3. Lymphokines
4. Transforming growth factor β

Options :

- 71087027561. 1
- 71087027562. 2
- 71087027563. 3
- 71087027564. 4

Question Number : 112 Question Id : 7108706892 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

Which one of the following acts by reversibly binding to and opening GABA and glutamate-gated channels causing paralysis and death of the parasites?

1. Fenbendazole
2. Chloramine T
3. Avermectins
4. Praziquantel

Options :

- 71087027565. 1
- 71087027566. 2
- 71087027567. 3
- 71087027568. 4

Question Number : 113 Question Id : 7108706893 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

An inert substance added to a drug to give suitable consistency or form is called

1. Stabilizer
2. Excipient
3. Syntropes
4. Indratent

Options :

- 71087027569. 1
- 71087027570. 2
- 71087027571. 3
- 71087027572. 4

Question Number : 114 Question Id : 7108706894 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

All antibiotic-free aqua drugs legally used in Indian aquaculture must be approved/certified by

1. FSSAI
2. CAA
3. RGCA
4. ICAR-NBFGR

Options :

- 71087027573. 1
- 71087027574. 2
- 71087027575. 3
- 71087027576. 4

Question Number : 115 Question Id : 7108706895 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

The approved dose of oxytetracycline for bacterial disease of fish for 10 days is

1. 25-40 mg/day biomass/day
2. 55-83 mg/day biomass/day
3. 40-53 mg/day biomass/day
4. 95-120 mg/day biomass/day

Options :

- 71087027577. 1
- 71087027578. 2
- 71087027579. 3
- 71087027580. 4

Question Number : 116 Question Id : 7108706896 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The plant derivative papain is used in aquaculture for

1. Improving the egg hatchability
2. Disinfecting the eggs
3. Removing adhesiveness of the eggs
4. Hardening of eggs

Options :

- 71087027581. 1
- 71087027582. 2
- 71087027583. 3
- 71087027584. 4

Question Number : 117 Question Id : 7108706897 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

As per EU regulations, the Maximum Reside Level (MRL) for oxytetracycline in edible fish tissue is

1. 100 ng/g
2. 2000 ng/g
3. 10 ng/g
4. 1000 ng/g

Options :

- 71087027585. 1
- 71087027586. 2
- 71087027587. 3
- 71087027588. 4

Question Number : 118 Question Id : 7108706898 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The organization responsible for quarantine of fish in India is

1. ICAR-CIBA
2. RGCA
3. CAA
4. ICAR-NBFGR

Options :

- 71087027589. 1
- 71087027590. 2
- 71087027591. 3
- 71087027592. 4

Question Number : 119 Question Id : 7108706899 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 4 Wrong Marks : 1

The therapeutic measures for myxosporean disease in fish are

1. Disinfection of pond after dewatering with calcium oxide and drying for a month
2. Application of CuSO_4 (0.5 ppm) every week and water quality improvement
3. Bath treatment with 2-3% NaCl with aeration
4. Bath treatment with 100 ppm formalin with aeration

Options :

- 71087027593. 1
- 71087027594. 2
- 71087027595. 3
- 71087027596. 4

Question Number : 120 Question Id : 7108706900 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 4 Wrong Marks : 1

In fish, overdose of formalin leads to

1. Gas embolism
2. Eye disease
3. Epithelial tumour
4. Gill necrosis

Options :

- 71087027597. 1
- 71087027598. 2
- 71087027599. 3
- 71087027600. 4