

# National Testing Agency

<b>Question Paper Name :</b>	Fish Health Management or Aquatic Animal Health Management 17th September Shift 2
<b>Subject Name :</b>	Fish Health Management or Aquatic Animal Health Management
<b>Creation Date :</b>	2021-09-17 18:54:49
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<b>Display Marks:</b>	Yes

## Fish Health Management or Aquatic Animal Health Management

<b>Group Number :</b>	1
<b>Group Id :</b>	190889129
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	480
<b>Is this Group for Examiner? :</b>	No

### Part A: General Knowledge

<b>Section Id :</b>	190889311
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<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	20
<b>Number of Questions to be attempted :</b>	20
<b>Section Marks :</b>	80
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889351
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 19088914782 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088959021. 1

19088959022. 2

19088959023. 3

19088959024. 4

**Question Number : 2 Question Id : 19088914783 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Optical fibre used the concept of which of the following?

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

**Options :**

19088959025. 1

19088959026. 2

19088959027. 3

19088959028. 4

**Question Number : 3 Question Id : 19088914784 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088959029. 1

19088959030. 2

19088959031. 3

19088959032. 4

**Question Number : 4 Question Id : 19088914785 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088959033. 1

19088959034. 2

19088959035. 3

19088959036. 4

**Question Number : 5 Question Id : 19088914786 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Which of the following is the chemical name of vitamin B<sub>2</sub>?

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

**Options :**

19088959037. 1

19088959038. 2

19088959039. 3

19088959040. 4

**Question Number : 6 Question Id : 19088914787 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

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

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

**Options :**

19088959041. 1

19088959042. 2

19088959043. 3

19088959044. 4

**Question Number : 7 Question Id : 19088914788 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

The digital computer operates on which of the following principle?

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

**Options :**

19088959045. 1

19088959046. 2

19088959047. 3

19088959048. 4

**Question Number : 8 Question Id : 19088914789 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088959049. 1

19088959050. 2

19088959051. 3

19088959052. 4

**Question Number : 9 Question Id : 19088914790 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

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

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

**Options :**

19088959053. 1

19088959054. 2

19088959055. 3

19088959056. 4

**Question Number : 10 Question Id : 19088914791 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959057. 1

19088959058. 2

19088959059. 3

19088959060. 4

**Question Number : 11 Question Id : 19088914792 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959061. 1

19088959062. 2

19088959063. 3

19088959064. 4

**Question Number : 12 Question Id : 19088914793 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959065. 1

19088959066. 2

19088959067. 3

19088959068. 4

**Question Number : 13 Question Id : 19088914794 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959069. 1

19088959070. 2

19088959071. 3

19088959072. 4

**Question Number : 14 Question Id : 19088914795 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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



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

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

**Options :**

19088959073. 1

19088959074. 2

19088959075. 3

19088959076. 4

**Question Number : 15 Question Id : 19088914796 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959077. 1

19088959078. 2

19088959079. 3

19088959080. 4

**Question Number : 16 Question Id : 19088914797 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959081. 1

19088959082. 2

19088959083. 3

19088959084. 4

**Question Number : 17 Question Id : 19088914798 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959085. 1

19088959086. 2

19088959087. 3

19088959088. 4

**Question Number : 18 Question Id : 19088914799 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

What is the focus of the participatory plant breeding program?

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

**Options :**

19088959089. 1

19088959090. 2

19088959091. 3

19088959092. 4

**Question Number : 19 Question Id : 19088914800 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959093. 1

19088959094. 2

19088959095. 3

19088959096. 4

**Question Number : 20 Question Id : 19088914801 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Micro-irrigation fund of Rs. 5.000 crore has been placed with which of the following organization?

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

**Options :**

19088959097. 1

19088959098. 2

19088959099. 3

19088959100. 4

## Part B Core : Fishery Science-II

<b>Section Id :</b>	190889312
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	190889352
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 21 Question Id : 19088914802 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959101. 1

19088959102. 2

19088959103. 3

19088959104. 4

**Question Number : 22 Question Id : 19088914803 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Seed production technology for seabass was developed by

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

**Options :**

19088959105. 1

19088959106. 2

19088959107. 3

19088959108. 4

**Question Number : 23 Question Id : 19088914804 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Feed is the most expensive input in

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

**Options :**

- 19088959109. 1
- 19088959110. 2
- 19088959111. 3
- 19088959112. 4

**Question Number : 24 Question Id : 19088914805 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

- 19088959113. 1
- 19088959114. 2
- 19088959115. 3
- 19088959116. 4

**Question Number : 25 Question Id : 19088914806 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The preferred stocking density of IMCs broodstock in pond is

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

**Options :**

- 19088959117. 1
- 19088959118. 2
- 19088959119. 3

19088959120. 4

**Question Number : 26 Question Id : 19088914807 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

**Assertion A:** Catla has upturned mouth with prominent protruding lower jaw.

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

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

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

**Options :**

19088959121. 1

19088959122. 2

19088959123. 3

19088959124. 4

**Question Number : 27 Question Id : 19088914808 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

**Assertion A:** Murrels are grouped under Air-breathing catfish.

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

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

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

**Options :**

19088959125. 1

19088959126. 2

19088959127. 3

19088959128. 4

**Question Number : 28 Question Id : 19088914809 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

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

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

**Options :**

19088959129. 1

19088959130. 2

19088959131. 3

19088959132. 4

**Question Number : 29 Question Id : 19088914810 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**



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

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

**Assertion A:** Fish production in RAS is highly profitable.

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

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

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

**Options :**

19088959133. 1

19088959134. 2

19088959135. 3

19088959136. 4

**Question Number : 30 Question Id : 19088914811 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The total inland fish production is highest in

1. West Bengal
2. Andhra Pradesh
3. Bihar
4. Uttar Pradesh

**Options :**

19088959137. 1

19088959138. 2

19088959139. 3

19088959140. 4

**Question Number : 31 Question Id : 19088914812 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Freshwater prawns come under which phylum?

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

**Options :**

19088959141. 1

19088959142. 2

19088959143. 3

19088959144. 4

**Question Number : 32 Question Id : 19088914813 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

*Fenneropenaeus indicus* prefers

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

**Options :**

19088959145. 1

19088959146. 2

19088959147. 3

19088959148. 4

**Question Number : 33 Question Id : 19088914814 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which of the following is called as water stick?

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

**Options :**

19088959149. 1

19088959150. 2

19088959151. 3

19088959152. 4

**Question Number : 34 Question Id : 19088914815 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The dosage of ovatide given to carp males is

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

**Options :**

19088959153. 1

19088959154. 2

19088959155. 3

19088959156. 4

**Question Number : 35 Question Id : 19088914816 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

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

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

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

**Options :**

19088959157. 1

19088959158. 2

19088959159. 3

19088959160. 4

**Question Number : 36 Question Id : 19088914817 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which is the major haemopoetic organ of fish?

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

**Options :**

19088959161. 1

19088959162. 2

19088959163. 3

19088959164. 4

**Question Number : 37 Question Id : 19088914818 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which of the following is commonly known as kareemeen?

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

**Options :**

19088959165. 1

19088959166. 2

19088959167. 3

19088959168. 4

**Question Number : 38 Question Id : 19088914819 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959169. 1

19088959170. 2

19088959171. 3

19088959172. 4

**Question Number : 39 Question Id : 19088914820 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

In fish, during spawning period

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

**Options :**

19088959173. 1

19088959174. 2

19088959175. 3

19088959176. 4

**Question Number : 40 Question Id : 19088914821 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

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

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

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

**Options :**

19088959177. 1

19088959178. 2

19088959179. 3

19088959180. 4

**Question Number : 41 Question Id : 19088914822 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Kupffer cells are macrophages present in

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

**Options :**

19088959181. 1

19088959182. 2

19088959183. 3

19088959184. 4

**Question Number : 42 Question Id : 19088914823 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

B cells and T cells are type of

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

**Options :**

19088959185. 1

19088959186. 2

19088959187. 3

19088959188. 4

**Question Number : 43 Question Id : 19088914824 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959189. 1

19088959190. 2

19088959191. 3

19088959192. 4

**Question Number : 44 Question Id : 19088914825 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Antigens are present in which of the following cells?

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

**Options :**

19088959193. 1

19088959194. 2

19088959195. 3

19088959196. 4

**Question Number : 45 Question Id : 19088914826 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Fish IgM is

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



**Options :**

- 19088959197. 1
- 19088959198. 2
- 19088959199. 3
- 19088959200. 4

**Question Number : 46 Question Id : 19088914827 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which one of the following is an acute phage protein?

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

**Options :**

- 19088959201. 1
- 19088959202. 2
- 19088959203. 3
- 19088959204. 4

**Question Number : 47 Question Id : 19088914828 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Transboundary movement of disease is called

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

**Options :**

- 19088959205. 1
- 19088959206. 2
- 19088959207. 3

19088959208. 4

**Question Number : 48 Question Id : 19088914829 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Commonly used disinfectant in aquaculture is

1. NaCl
2. Malachite Green
3. Copper Sulphate
4. KMnO<sub>4</sub>

**Options :**

19088959209. 1

19088959210. 2

19088959211. 3

19088959212. 4

**Question Number : 49 Question Id : 19088914830 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Dry ice is solid form of-

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

**Options :**

19088959213. 1

19088959214. 2

19088959215. 3

19088959216. 4

**Question Number : 50 Question Id : 19088914831 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which of the following is used for tissue fixation?

1. HCHO
2. EDTA
3. NaCl
4. KMnO<sub>4</sub>

**Options :**

19088959217. 1

19088959218. 2

19088959219. 3

19088959220. 4

**Question Number : 51 Question Id : 19088914832 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

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

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

**Options :**

19088959221. 1

19088959222. 2

19088959223. 3

19088959224. 4

**Question Number : 52 Question Id : 19088914833 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Zoonotic disease is described as transmission of disease

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

**Options :**

19088959225. 1

19088959226. 2

19088959227. 3

19088959228. 4

**Question Number : 53 Question Id : 19088914834 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which of the following is a gram positive pathogenic bacteria?

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

**Options :**

19088959229. 1

19088959230. 2

19088959231. 3

19088959232. 4

**Question Number : 54 Question Id : 19088914835 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Symptoms of Exophthalmia are related to

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

**Options :**

19088959233. 1

19088959234. 2

19088959235. 3

19088959236. 4

**Question Number : 55 Question Id : 19088914836 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Aflatoxin is produced by

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

**Options :**

19088959237. 1

19088959238. 2

19088959239. 3

19088959240. 4

**Question Number : 56 Question Id : 19088914837 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Latest Indian fish production is

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

**Options :**

19088959241. 1

19088959242. 2

19088959243. 3

19088959244. 4

**Question Number : 57 Question Id : 19088914838 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959245. 1

19088959246. 2

19088959247. 3

19088959248. 4

**Question Number : 58 Question Id : 19088914839 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959249. 1

19088959250. 2

19088959251. 3

19088959252. 4

**Question Number : 59 Question Id : 19088914840 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

High PER in fish fed with higher carbohydrate is due to

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

**Options :**

19088959253. 1

19088959254. 2

19088959255. 3

19088959256. 4

**Question Number : 60 Question Id : 19088914841 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Enzymes Carboxypeptidases belong to the group

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

**Options :**

19088959257. 1

19088959258. 2

19088959259. 3

19088959260. 4

**Question Number : 61 Question Id : 19088914842 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which of the following nutrient is absorbed by facilitated diffusion

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

**Options :**

19088959261. 1

19088959262. 2

19088959263. 3

19088959264. 4

**Question Number : 62 Question Id : 19088914843 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Ring test is used to test the digestibility of

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



**Options :**

- 19088959265. 1
- 19088959266. 2
- 19088959267. 3
- 19088959268. 4

**Question Number : 63 Question Id : 19088914844 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Haemorrhagic kidney is the symptom of deficiency of

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

**Options :**

- 19088959269. 1
- 19088959270. 2
- 19088959271. 3
- 19088959272. 4

**Question Number : 64 Question Id : 19088914845 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Feeding of excess untreated cotton seed cake in fish feeds causes

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

**Options :**

- 19088959273. 1
- 19088959274. 2
- 19088959275. 3

19088959276. 4

**Question Number : 65 Question Id : 19088914846 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959277. 1

19088959278. 2

19088959279. 3

19088959280. 4

**Question Number : 66 Question Id : 19088914847 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

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

**Options :**

19088959281. 1

19088959282. 2

19088959283. 3

19088959284. 4

Question Number : 67 Question Id : 19088914848 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

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

Choose the correct answer from the options given below:

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

Options :

19088959285. 1

19088959286. 2

19088959287. 3

19088959288. 4

Question Number : 68 Question Id : 19088914849 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

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

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

Options :

19088959289. 1

19088959290. 2

19088959291. 3

19088959292. 4

**Question Number : 69 Question Id : 19088914850 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Dietary protein requirement of fish has a linear relationship with

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

**Options :**

19088959293. 1

19088959294. 2

19088959295. 3

19088959296. 4

**Question Number : 70 Question Id : 19088914851 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Match List I with List II

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

Choose the correct answer from the options given below:

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

**Options :**

19088959297. 1

19088959298. 2

19088959299. 3

19088959300. 4

## Part C : Fish Health Management or Aquatic Animal Health Management

<b>Section Id :</b>	190889313
<b>Section Number :</b>	3
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	200
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1

**Sub-Section Id :** 190889353

**Question Shuffling Allowed :** Yes

**Question Number : 71 Question Id : 19088914852 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Increase of Leucocytes in the blood is called as

1. Leukaemia
2. Leukopenia
3. Anemia
4. Leucocytopenia

**Options :**

19088959301. 1

19088959302. 2

19088959303. 3

19088959304. 4

**Question Number : 72 Question Id : 19088914853 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Macrophages, when present in the blood stream, is termed as

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

**Options :**

19088959305. 1

19088959306. 2

19088959307. 3

19088959308. 4

**Question Number : 73 Question Id : 19088914854 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

FACS stands for

1. Fluorescent Activated Cell Shorting
2. Fluorescent Antigen Cell Shorting
3. Fluorescent Antibody Cell Shorting
4. Fluorescent Apoptotic Cell Shorting

**Options :**

19088959309. 1

19088959310. 2

19088959311. 3

19088959312. 4

**Question Number : 74 Question Id : 19088914855 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Neurotoxic shellfish poisoning is caused by

1. Diatom
2. Dinoflagellate
3. Bacteria
4. Brown algae

**Options :**

19088959313. 1

19088959314. 2

19088959315. 3

19088959316. 4

**Question Number : 75 Question Id : 19088914856 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

An adaptive increase in the number of cells that can cause enlargement of tissues or organs is known as

1. Hyperplasia
2. Hypertrophy
3. Atrophy
4. Autolysis

**Options :**

19088959317. 1

19088959318. 2

19088959319. 3

19088959320. 4

**Question Number : 76 Question Id : 19088914857 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Among these, which is NOT considered as cardinal sign of inflammation?

1. Swelling
2. Pain
3. Opsonization
4. Heat

**Options :**

19088959321. 1

19088959322. 2

19088959323. 3

19088959324. 4

**Question Number : 77 Question Id : 19088914858 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Which of the following toxicities relates to Brown Blood Disease in fish?

1. High pH concentrations in the water
2. High nitrite concentrations in the water
3. High O<sub>2</sub> concentrations in the water
4. Heavy Metal toxicity



**Options :**

19088959325. 1

19088959326. 2

19088959327. 3

19088959328. 4

**Question Number : 78 Question Id : 19088914859 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Interferon (IFN) production by teleost fish occurs after

1. Viral infection
2. Bacterial infection
3. Parasitic infestation
4. Fungal Infection

**Options :**

19088959329. 1

19088959330. 2

19088959331. 3

19088959332. 4

**Question Number : 79 Question Id : 19088914860 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Emerging finfish virus that infects Tilapia is

1. TLV
2. TBL
3. KHV
4. HPV

**Options :**

19088959333. 1

19088959334. 2

19088959335. 3

19088959336. 4

**Question Number : 80 Question Id : 19088914861 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Eosin red dye is used for staining of

1. Cytoplasm
2. Blood cells
3. Nucleus
4. Tumour Tissue

**Options :**

19088959337. 1

19088959338. 2

19088959339. 3

19088959340. 4

**Question Number : 81 Question Id : 19088914862 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Principal chemical mediator involved in the vasodilation during inflammatory response is

1. Histamine
2. Prostaglandin
3. Leukotrienes
4. Immunoglobulin

**Options :**

19088959341. 1

19088959342. 2

19088959343. 3

19088959344. 4

**Question Number : 82 Question Id : 19088914863 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

White tail disease is commonly seen in

1. *Penaeus indicus*
2. *Litopenaeus vannamei*
3. *Penaeus monodon*
4. *Macrobrachium rosenbergii*

**Options :**

19088959345. 1

19088959346. 2

19088959347. 3

19088959348. 4

**Question Number : 83 Question Id : 19088914864 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

WSSV caused more damage to which of the following shellfish ?

1. Tiger shrimp
2. White leg shrimp
3. Indian white shrimp
4. Banana prawn

**Options :**

19088959349. 1

19088959350. 2

19088959351. 3

19088959352. 4

**Question Number : 84 Question Id : 19088914865 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

GOT Enzyme function is related to which organ?

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

**Options :**

19088959353. 1

19088959354. 2

19088959355. 3

19088959356. 4

**Question Number : 85 Question Id : 19088914866 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which of the following is a natural anticoagulant ?

1. EDTA
2. Sodium Citrate
3. Heparin
4. Sodium oxalates

**Options :**

19088959357. 1

19088959358. 2

19088959359. 3

19088959360. 4

**Question Number : 86 Question Id : 19088914867 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Antibodies are produced by

1. Neutrophils
2. Macrophages
3. B Lymphocytes
4. T Lymphocytes

**Options :**

- 19088959361. 1
- 19088959362. 2
- 19088959363. 3
- 19088959364. 4

**Question Number : 87 Question Id : 19088914868 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which one is NOT considered as cytokines?

- 1. Interleukins
- 2. Interferon
- 3. Tumor necrosis factor
- 4.  $\alpha$ -2 macroglobulin

**Options :**

- 19088959365. 1
- 19088959366. 2
- 19088959367. 3
- 19088959368. 4

**Question Number : 88 Question Id : 19088914869 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Black spot disease occurs mainly in which of the following aquatic animals?

- 1. *Litopenaeus vannamei*
- 2. *Penaeus monodon* and *Macrobrachium rosenbergii*
- 3. *Oreochromis mossambicus*
- 4. *Penaeus indicus*

**Options :**

- 19088959369. 1
- 19088959370. 2
- 19088959371. 3

19088959372. 4

**Question Number : 89 Question Id : 19088914870 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Carp 'Sekoke' disease is associated with

1. Genetic Disease
2. Nutritional Disease
3. Bacterial Disease
4. Fungal Disease

**Options :**

19088959373. 1

19088959374. 2

19088959375. 3

19088959376. 4

**Question Number : 90 Question Id : 19088914871 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The deficiency of collagen metabolism in fish produces spinal deformity in fish due to

1. Deficiency of Vit D
2. Deficiency of Vit K
3. Deficiency of Vit E
4. Deficiency of Vit C

**Options :**

19088959377. 1

19088959378. 2

19088959379. 3

19088959380. 4

**Question Number : 91 Question Id : 19088914872 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Yellow head disease is most commonly seen in

1. *Penaeus monodon*
2. *Macrobrachium rosenbergii*
3. *Litopenaeus vannamei*
4. *Penaeus indicus*

**Options :**

19088959381. 1

19088959382. 2

19088959383. 3

19088959384. 4

**Question Number : 92 Question Id : 19088914873 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Interlukin (IL-1) is produced by

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

**Options :**

19088959385. 1

19088959386. 2

19088959387. 3

19088959388. 4

**Question Number : 93 Question Id : 19088914874 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Leukotrienes and Lipoxins enhances phagocytosis and are potent chemoattractants for

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

**Options :**

19088959389. 1

19088959390. 2

19088959391. 3

19088959392. 4

**Question Number : 94 Question Id : 19088914875 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

A parasite of teleosts vascular system is

1. Trypanosoma
2. Myxobolus
3. Diplostomum
4. Chilodonella

**Options :**

19088959393. 1

19088959394. 2

19088959395. 3

19088959396. 4

**Question Number : 95 Question Id : 19088914876 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Out of following, which one is a zoonotic parasite?

1. *Diphilobotrium latum*
2. *Myxobolus cerebralis*
3. *Kudua alliaria*
4. *Caligus elongatus*



**Options :**

- 19088959397. 1
- 19088959398. 2
- 19088959399. 3
- 19088959400. 4

**Question Number : 96 Question Id : 19088914877 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Van Gieson stain is used for the staining of

- 1. Collagenous tissue
- 2. Lipid
- 3. Nucleus
- 4. Glycogen

**Options :**

- 19088959401. 1
- 19088959402. 2
- 19088959403. 3
- 19088959404. 4

**Question Number : 97 Question Id : 19088914878 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

L-15 (Liebovitz) medium is used for

- 1. Bacterial culture
- 2. Viral culture
- 3. Fungal culture
- 4. Cell culture

**Options :**

- 19088959405. 1
- 19088959406. 2
- 19088959407. 3

19088959408. 4

**Question Number : 98 Question Id : 19088914879 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Griffin test is used to identify

1. *Aeromonas hydrophila*
2. *Aeromonas salmonicida*
3. *Pseudomonas fluorescens*
4. *Flavobacterium columnare*

**Options :**

19088959409. 1

19088959410. 2

19088959411. 3

19088959412. 4

**Question Number : 99 Question Id : 19088914880 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which one is NOT a nucleic acid based techniques?

1. PCR
2. LAMP
3. FAME
4. RFLP

**Options :**

19088959413. 1

19088959414. 2

19088959415. 3

19088959416. 4

**Question Number : 100 Question Id : 19088914881 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Oxytetracycline antibiotic inhibits

1. DNA synthesis
2. Protein synthesis
3. Carbohydrate synthesis
4. Lipid synthesis

**Options :**

19088959417. 1

19088959418. 2

19088959419. 3

19088959420. 4

**Question Number : 101 Question Id : 19088914882 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which of the following is the initiator caspase of intrinsic apoptotic pathway?

1. Caspase 9
2. Caspase 8
3. Caspase 3
4. Caspase 5

**Options :**

19088959421. 1

19088959422. 2

19088959423. 3

19088959424. 4

**Question Number : 102 Question Id : 19088914883 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which fish disease is not listed in OIE list?

1. Infection with viral haemorrhagic septicaemia virus
2. Infection with *Gyrodactylus salaris*
3. Infection with *Aphanomyces invadans*
4. Infection with *Ichthyophthirius multifiliis*

**Options :**

19088959425. 1

19088959426. 2

19088959427. 3

19088959428. 4

**Question Number : 103 Question Id : 19088914884 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Headquarter of Office of International Epizootics is located in which country?

1. Thailand
2. Malaysia
3. France
4. USA

**Options :**

19088959429. 1

19088959430. 2

19088959431. 3

19088959432. 4

**Question Number : 104 Question Id : 19088914885 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

*Bst* polymerase is used in which of the following techniques?

1. LAMP
2. PCR
3. Real-time PCR
4. RFLP

**Options :**

- 19088959433. 1
- 19088959434. 2
- 19088959435. 3
- 19088959436. 4

**Question Number : 105 Question Id : 19088914886 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

In which fish disease diagnosis 4-6 sets of primers are used?

- 1. Nested PCR
- 2. LAMP
- 3. Real-time PCR
- 4. Multiplex PCR

**Options :**

- 19088959437. 1
- 19088959438. 2
- 19088959439. 3
- 19088959440. 4

**Question Number : 106 Question Id : 19088914887 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which one is NOT related to Real-time PCR?

- 1. SYBR green
- 2. Taqman Probe
- 3. Melting Curve
- 4. *Bst* polymerase

**Options :**

- 19088959441. 1
- 19088959442. 2
- 19088959443. 3

19088959444. 4

**Question Number : 107 Question Id : 19088914888 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Ethidium bromide is commonly used to dye

1. DNA
2. Antibody
3. Antigen
4. RNA

**Options :**

19088959445. 1

19088959446. 2

19088959447. 3

19088959448. 4

**Question Number : 108 Question Id : 19088914889 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which one is used as tracking dye in gel electrophoresis?

1. Crystal violet
2. Bromophenol blue
3. SYBR green
4. Ethidium bromide

**Options :**

19088959449. 1

19088959450. 2

19088959451. 3

19088959452. 4

**Question Number : 109 Question Id : 19088914890 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

*EcoRI* enzyme is used in which of the following techniques?

1. PCR
2. Real-time PCR
3. LAMP
4. RFLP

**Options :**

19088959453. 1

19088959454. 2

19088959455. 3

19088959456. 4

**Question Number : 110 Question Id : 19088914891 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Which drug is unapproved for treating food fish and are considered high regulatory priority by US FDA?

1. Sulphametoxine
2. Florfenicol
3. Chloramphenicol
4. Sulphamerazine

**Options :**

19088959457. 1

19088959458. 2

19088959459. 3

19088959460. 4

**Question Number : 111 Question Id : 19088914892 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Romet consists of which drug?

1. Florfenicol
2. Sulfadimethoxine
3. Sulphamerazine
4. Tricane methane sulfonate

**Options :**

19088959461. 1

19088959462. 2

19088959463. 3

19088959464. 4

**Question Number : 112 Question Id : 19088914893 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Carp pox comes under

1. Paramyxoviridae
2. Adenoviridae
3. Herpes viridae
4. Retroviridae

**Options :**

19088959465. 1

19088959466. 2

19088959467. 3

19088959468. 4

**Question Number : 113 Question Id : 19088914894 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Important identifying character of *Ichthyophthirus multifilis* is

1. Flagella
2. Inclusion bodies
3. Macronucleus
4. Kinetoplast



**Options :**

- 19088959469. 1
- 19088959470. 2
- 19088959471. 3
- 19088959472. 4

**Question Number : 114 Question Id : 19088914895 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Which of the following immunoglobulins is found in fish?

- 1. Ig M
- 2. Ig A
- 3. Ig E
- 4. Ig G

**Options :**

- 19088959473. 1
- 19088959474. 2
- 19088959475. 3
- 19088959476. 4

**Question Number : 115 Question Id : 19088914896 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Which is a probiotic vibrio?

- 1. *Vibrio anguillarum*
- 2. *Vibrio alginolyticus*
- 3. *Vibrio metchnikoffi*
- 4. *Virbrio harvey*

**Options :**

- 19088959477. 1
- 19088959478. 2
- 19088959479. 3

19088959480. 4

**Question Number : 116 Question Id : 19088914897 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

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

List I	List II
A. Inflammation	I. Polymorphonuclear leucocytes
B. Monocytes	II. Pyknosis
C. Neutrophils	III. Loss of function
D. Necrosis	IV. Macrophage

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

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

**Options :**

19088959481. 1

19088959482. 2

19088959483. 3

19088959484. 4

**Question Number : 117 Question Id : 19088914898 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Match List I with List II

List I	List II
A. Growth inhibitors	I. $\alpha$ -2-macroglobulin
B. Enzyme inhibitors	II. Transferrin
C. Acute Phase Protein	III. Phagocytosis
D. Opsonin	IV. C- reactive protein

Choose the correct answer from the options given below:

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

Options :

19088959485. 1

19088959486. 2

19088959487. 3

19088959488. 4

Question Number : 118 Question Id : 19088914899 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 4 Wrong Marks : 1

Match List I with List II

List I	List II
A. Eicosanoids	I. INF $\gamma$
B. Cytokines	II. Lymphocytes
C. Lymphokines	III. TNF $\alpha$
D. CD4	IV. Prostaglandin

Choose the correct answer from the options given below:

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

Options :

19088959489. 1

19088959490. 2

19088959491. 3

19088959492. 4

**Question Number : 119 Question Id : 19088914900 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

**Match List I with List II**

List I	List II
A. Ziehl-Neelsen	I. Fixative
B. Cacodylate	II. Bacteria
C. Zenker's fluid	III. Anaesthesia
D. Benzocaine	IV. Buffer

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

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

**Options :**

19088959493. 1

19088959494. 2

19088959495. 3

19088959496. 4

**Question Number : 120 Question Id : 19088914901 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

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

List I	List II
A. Monogenea	I. Gyrodactylus
B. Myxosporea	II. Diphylobothrium
C. Crustacean	III. Ergasilus
D. Cestode	IV. Myxobolus

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

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

**Options :**

19088959497. 1

19088959498. 2

19088959499. 3

19088959500. 4