1. Bheries is the traditional fish farming in
   West Bengal
2. Average productivity of FFDA ponds are
   3000 Kg/ha/year
3. Which of the following is commonly known as Asian green mussel
   *Perna viridis*
4. Larval development of blue swimmer crab (*Portunus pelagicus*) comprises of
   4 Zoeal stage and 1 megalopa stage
5. Indian Pearl Oyster is
   *Pinctada fucata*
6. D shaped larvae in *Perna indica* obtained after ----------hours of fertilization
   24 h
7. The scientific name of cobia is
   *Rachycentron canadum*
8. Orange spotted grouper are
   *Eurythermal and Euryhaline*
9. Larval feeding of cobia or Indian pompano starts with
   *Rotifers*
10. The feed of Indian pompano fingerlings should contains
    45% Protein
11. Seaweed farming originated in Japan long ago with the culture of
    *Poryphyra*
12. *Poryphyra* carpospores germinate on mollusc shell and give rise to
    *Conchocelis stage*
13. Which of the following is called as Pacific Oyster

   \textit{C. gigas}

14. \textit{Scylla serrata} is commonly known as

   \textbf{Mud crab}

15. The causative agent of Epizootic Ulcerative Syndrome (EUS) is

   \textbf{Aphanomyces}

16. \textit{Aeromonas salmonicida} causes

   \textbf{Furunculosis}

17. For disinfection of hatchery, the recommended concentration of available chlorine is

   \textbf{200 ppm}

18. Infectious Pancreatic Necrosis (IPN) is a

   \textbf{Viral disease}

19. Spring Viremia of Carp (SVC) is caused by

   \textbf{Rhabdovirus}

20. Whirling disease is caused by

   \textbf{Myxosoma}

21. Each 5 mg/L of formalin added to a pond chemically removes

   \textbf{1.0 mg/L of dissolved oxygen}

22. Potassium permanganate

   \textbf{Both Reduces biological oxygen demand and Oxidize organic matter}

23. Which is commonly called as “Razor Fish”?  

   \textbf{DELETED}

24. \textit{Hilsha ilisha} is

   \textbf{Planktonivorous}

25. Which of the following is not an exotic fish?

   \textbf{Eutropichthys vacha}
26. Scientific name of green tiger shrimp

   *Penaeus semisulcatus*

27. *Macrobrachium rosenbergii* commonly called as

   **Giant freshwater prawn**

28. Which is a bottom dwelling fish?

   **Both Mrigal and Reba**

29. Asian seabass is

   **Protandrous hermaphrodite**

30. Parental care seen in

   **Channa striata**

31. Giant river prawn is

   **Omnivorous with bottom feeding habit**

32. Which of the following is an exotic catfish?

   **Pangasianodon hypophthalmus**

33. *Mystus seenghala* belongs to the family

   **Bagridae**

34. Scientific name of golden mahseer is

   **Tor putitora**

35. Ornamental fish native to India.

   **Both Dwarf gourami and Zebra danio**

36. Scientific name of Malabar labeo is

   **L. dussumieri**

37. Which is called as freshwater shark?

   **W. attu**

38. Larval stages of *M. rosenbergii* is

   11
39. Which of the following is mainly insectivorous in the adult stage?

   Climbing perch

40. *Channa striata* is commonly called as

   Striped murrel

41. Duration of larval stages in *M. rosenbergii* at 28-32°C temperature is

   23-32 days

42. Which is called sun catfish?

   Horabagrus brachysoma

43. GtH1 also called as

   FSH

44. Jayanti rohu is developed by

   CIFA

45. Pituitary releases

   GtH

46. Adenohypophysis in teleosts secretes

   All of the given options

47. For longer storage, pituitary gland can be preserved in

   Absolute alcohol

48. Carp pituitary glands collected during

   Summer

49. The recommended dose (ml/Kg body weight of fish) of GnRH based hormone for female carps is

   0.5

50. Origin of Pituitary is

   Ectothermal

51. Which of the following is known as bullseye snakehead?

   Channa marulius
52. The perfect composition of fishes to utilize pond niche are

Silver carp: Catla: Rohu: Mrigal

53. Among the Integrated fish farming, which one of the following shows highest integration with fish.

Duck

54. Accessory respiratory organs are well developed in

Anabas testudineus

55. Bony fishes comes under the Phylum

Chordate

56. Which of the following is a prolific breeder?

Tilapia

57. Which of the following is not true about lime?

decreases carbonate content in water

58. Removal of microbial contaminants from contaminated bivalve by placing them in tanks of clean water is called

Depuration

59. In intensive aquaculture, the most expensive input is

Feed

60. Which of the following is called as back swimmer?

Notonecta

61. Which of the following traditional shrimp trapping system have maximum productivity?

Pokkali field
62. Who has given Pearl sac theory?

Tokichi Nishikawa

63. Which among the following is largest pearl oyster?

Pinctada maxima

64. Which chemical is used for oyster valve opening during conditioning before bead implantation?

Menthol

65. Which one of the following edible oyster is found only in marine environment?

Saccostrea cucullata

66. Which one of the following is herbivorous?

Milk fish

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

Semi-intensive system

68. Which of the following fish feeds mainly on lab-lab?

Milk fish

69. Which among the following net is used for collection of Milk fish fry from wild?

Surf net

70. Which of the following shrimp culture system uses auto-stocking method of stocking?

Extensive

71. The Chemmeenkettu technique of seed stocking is used by

Kerala farmers
72. Pearl spot cultured mainly in
   **Kerala**
73. Induced breeding and seed production technology for seabass was developed by
   **CIBA**
74. Which of the following country is the largest producer of pearl?
   **Japan**
75. Pokkali fields are present in
   **Kerala**
76. Which form of nitrogenous waste is toxic to fish?
   **NH₃ & NO₂**
77. *Channa striata* is the state fish of
   **Telangana**
78. Which one of the following is carnivorous?
   **Grouper**
79. The WSSV mainly affected the growout culture of
   **P. monodon**
80. The coastal low lying field in Goa is known as
   **Khazan lands**
81. Which of the following fish induced breeding and seed production technology is not available in India?
   **Snapper**
82. Kareemeen is common name of
   **Pearl spot**
83. What should be the optimum pH for fish culture?
   **DELETED**
84. What should be the stocking density in super-intensive farming system of shrimp?
   > 100/m²
85. The ammonia toxicity to fish increase with **increase of pH**

86. Winkler method is used for measurement of **Dissolved Oxygen**

87. The infective stage of *Ichthyophthirius multifiliis* is **DELETED**

88. The highest fecundity is exhibited by **Grouper**

89. The first attempt to breed major carps in confined water was by _______ technique **Wet bundh breeding**

90. Veliger is the larval form of **Mollusc**

91. Which of the following is not a synthetic hormone? **HCG**

92. The color of fertilized egg of *Channa striata* is **Yellowish**

93. Sechi disc is used to measure? **Turbidity**

94. Carps belong to the family? **Cyprinidae**

95. Which of the following fish is used for biological aquatic weed control? **Grass carp**

96. Which nation ranks second in world aquaculture production? **India**

97. In fish culture ponds inlet and outlet are constructed on? **Opposite side**
98. Ich disease in freshwater fish is caused by?
   **Protozoans**

99. Hypophysation method was first used in?
   **Brazil**

100. Algal bloom is caused by?
   **Microcystis**

101. What is MAP?
   **Modified atmosphere packaging**

102. In IQF melting point of ice is lowered to ________ at a pressure of ________
   
   **-22^\circ C ; 207.5 MPa**

103. Which institute developed solar fish drier?
   **CIFT**

104. In which process fat hydrolysing enzyme destroyed?
   **Extrusion**

105. The carcinogenic compound present in smoked fish product is
   **3,4 benzopyrene**

106. In radiation preservation of fish, which of the following bacteria is destroyed?
   **Both Listeria and Salmonella**

107. Kamaboko is _______________
   **Boiled fish paste**

108. Thermal processing is also known as
   **Canning**

109. Which of the following is a non-thermal processing method?
   **Both Radiation and Pulse light preservation**

110. What is IQF?
   **Individually quick frozen**
111. Fish mince for preparation of Surimi, readily forms gel due to

**Unfolding and cross linking of actomyosin**

112. The IQF products stored at _____________ °C

-30

113. Prawn cutlets can be classified under _____________ product

**Battered and breaded**

114. Which of the following is also known as “High Hydrostatic Pressure”? **HPP**

115. Butterfly fan tail is one of the forms of

**Prawn**

116. Battered and breaded products are stored at _____________ °C

-20

117. The main source of fish body oil in India is

**Oil sardine**

118. Shark liver contains _____________% of oil

60-75

119. Which is used as the base for fish noodles?

**Surimi**

120. Chitosan is soluble in

**None of the above**

121. Which verity of shark fin fetches higher price?

**White**

122. Squalene is present in

**All of the given options**
123. Which of the following product used as milk replacer and food flavouring agent?

**Fish hydrolysates**

124. In India, isinglass is produced from the airbladder of

**Both Eels and Catfishes**

125. The base material for fish wafer is

**Both Fish mince and Starch**

126. Wet rendering process for manufacture of fish meal is used for

**Both Fatty fish and Offal**

127. Fish meal contains _____________% fat

5-10

128. Chitin is deacetylated by heating at 90-95\(^\circ\)C with ________________

**Caustic soda**

129. The lustrous effect in pearl essence is due to

**Guanine**

130. Which shark teeth fetches high price due to its shape and size?

**Tiger shark**

131. Surgical sutures prepared from

**Gut of fish**

132. Type-B FPC contains ______% of fat

3.0

133. The pH of fish silage with the addition of formic acid is

4
134. Which enzyme used for preparation of fish hydrolysates?

   All of the given options

135. Shark bones are processed for use as a source of

   Chondroitin sulphate

136. Organism which swims freely regardless of movement of surrounding water is

   Necton

137. Heleoplankton means

   Pond plankton

138. Ceratium is a

   Dianoflagellates

139. Red water phenomenon is mainly due to dominance of

   Dianoflagellates

140. The total weight of all organisms in a unit area or volume a given time

   Biomass

141. The primary production in aquatic ecosystem depends mainly on

   All of the given options

142. The region between photic and aphotic zone is called as

   Dysphotic zone

143. Free floating macrophytes

   Salvinia

144. Which of the following is an emergent aquatic macrophyte?

   Typha

145. Ciliated corona in the head is present in

   Rotefers
146. Thermal stratification in lakes generally occurs in 

**Metalimnion**

147. Organisms attached or clinging to stems and leaves of the plants or any other object projected above the bottom is called 

**Periphyton**

148. The shallow water region with light penetration to the bottom and occupied by rooted plants in lakes is called 

**Littoral zone**

149. Temporary plankton is also called as 

**Meroplankton**

150. The size of microplankton is 

**50-500 µm**