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**APPSC Assistant Inspector of
Fisheries (Fisheries Science-II)
Official Paper (Held In_ 2019)**



PAPER-II- FISHERIES SCIENCE-II

FINAL KEY

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

C. gigas

14. *Scylla serrata* is commonly known as

Mud crab

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

Aphanomyces

16. *Aeromonas salmonicida* causes

Furunculosis

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

200 ppm

18. Infectious Pancreatic Necrosis (IPN) is a

Viral disease

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

Rhabdovirus

20. Whirling disease is caused by

Myxosoma

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

1.0 mg/L of dissolved oxygen

22. Potassium permanganate

Both Reduces biological oxygen demand and Oxidize organic matter

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

DELETED

24. *Hilsha ilisha* is

Planktonivorous

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

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 Chemmeenketu 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. Secchi 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°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 variety 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 90-95⁰C 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 p^H 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

Rotifers

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

