

10. Mono sex culture is popular in :
(A) Mullet (B) White shrimp (C) Milk fish (D) *Tilapia*
11. Give an example for live bearing fish :
(A) Molly (B) Gold fish (C) Koi carp (D) Angel fish
12. Name a plant toxicant used in Aquaculture :
(A) Dieldrin (B) Groundnut oil cake
(C) Tea seed cake (D) CuSO_4
13. Select the correct order of larval development in Penaeid shrimp :
(A) Egg - mysis - nauplius - protozoa - post larvae
(B) Egg - protozoa - nauplius - mysis - post larvae
(C) Nauplius - egg - protozoa - mysis - post larvae
(D) Egg - nauplius - protozoa - mysis - post larvae
14. Which among the following is popularly known as 'Scampi' ?
(A) *Penaeus monodon* (B) *Macrobrachium rosenbergii*
(C) *Metapenaeus dobsonii* (D) *Metapenaeus monoceros*
15. White spot disease in shrimp is caused by :
(A) Bacteria (B) Fungus (C) Virus (D) Protozoa
16. The instrument Secchi disc is related with :
(A) Salinity (B) Temperature (C) pH (D) Turbidity
17. Pick out the odd one :
(A) Copepod (B) *Navicula* (C) *Anabaena* (D) *Chlorella*
18. Which among the following is not a coastal district in Kerala ?
(A) Kozhikode (B) Kollam (C) Malappuram (D) Palakkad

19. Select the true statement from below :
- (A) Dissolved Oxygen is maximum just before day break
 (B) Dissolved Oxygen level increases during night
 (C) Dissolved Oxygen is maximum in late afternoon
 (D) Dissolved Oxygen level remains constant during day time
20. Duck cum fish culture is an example for :
- (A) Composite fish culture (B) Monoculture
 (C) Intensive culture (D) Integrated fish culture
21. Eye stalk ablation technique is used in :
- (A) Induced breeding of carps (B) Induced breeding of mullets
 (C) Induced breeding of mussel (D) Induced breeding of Penaeid shrimp
22. *Catla* is a _____ feeder.
- (A) Surface (B) Bottom (C) Column (D) Filter
23. Which among the following is not a cultivable shrimp ?
- (A) *Fenneropenaeus indicus* (B) *Penaeus monodon*
 (C) *Penaeus vannamei* (D) *Parapenaeopsis styliifera*
24. In fish culture pond aerator is used :
- (A) To increase dissolved oxygen (B) To decrease turbidity
 (C) To decrease acidity (D) To increase acidity
25. The fish which can be used in aquatic weed control is :
- (A) *Catla* (B) Grasscarp (C) Murrel (D) Mrigal
26. Give an example for cold water fish :
- (A) Guppy (B) Milk fish (C) Trout (D) Catfish

27. Name a fish which is used in mosquito larvae control :
- (A) Rohu (B) *Gambusia* (C) Silver carp (D) Gold fish
28. Select an organic manure from below :
- (A) Cow dung (B) Urea
(C) Super phosphate (D) Tea seed cake
29. Select a fish that can grow better in cages :
- (A) *Catla*
(C) Mrigal (B) Pearl spot (D) *Anabas*
30. The average culture period of Indian Tiger shrimp is :
- (A) 3 - 4 Months (B) One year (C) 6 - 8 Months (D) 8 - 10 Months
31. The function of a core trench in an earthen bund is :
- (A) To act as walk able space
(B) To strengthen the bund
(C) To avoid direct contact with bund and water
(D) To facilitate netting operation
32. Which nation ranks first in world fish production ?
- (A) India (B) USA (C) China (D) Japan
33. 'White leg shrimp' is :
- (A) *Penaeus vannamei* (B) *Penaeus monodon*
(C) *Thenus orientalis* (D) *Fennero penaeus indicus*
34. Most important contributor of cultured shrimp in India is :
- (A) Kerala (B) Andhra Pradesh
(C) Tamil Nadu (D) West Bengal
35. The toxic component in Mahua oil cake is :
- (A) Saponin (B) Rotenone (C) Eldrin (D) Simazine

36. Scientific name of Green Mussel is :
- (A) *Pinctada fucata* (B) *Perna indica*
 (C) *Pampus argentius* (D) *Perna viridis*
37. Which among the following is not a product extracted from sea weed ?
- (A) Agar - agar (B) Carrageenan (C) Alginic acid (D) Chitin
38. Fish is a good source of :
- (A) Vitamin (B) Mineral (C) Protein (D) Carbohydrate
39. The greenish colour of a pond water is an indication of :
- (A) Plankton turbidity (B) Clay turbidity
 (C) High acidity (D) Oxygen depletion
40. Raft culture is commonly used for :
- (A) Shrimp (B) Mussel (C) Crab (D) Murrel
41. Name an elasmobranch fish :
- (A) Sardine (B) Platy (C) *Anabas* (D) Shark
42. Indian pearl oyster is :
- (A) *Perna indica* (B) *Pinctada fucata*
 (C) *Loligo duvauceli* (D) *Crassostrea madrasensis*
43. Name a shrimp that completes its life cycle in sea itself :
- (A) Karikadi shrimp (B) Giant tiger prawn
 (C) Indian white prawn (D) Giant freshwater prawn
44. The protozoa stage of shrimp feeds mainly on :
- (A) Rotifer (B) *Artemia nauplii* (C) Diatom (D) Detritus

45. The Cannibalism behaviour is shown by :
(A) Mrigal (B) Milk fish
(C) Giant freshwater prawn (D) None of the above
46. Quick lime is :
(A) CaO (B) Ca(OH)₂ (C) CaCO₃ (D) Mg(OH)₂
47. Winkler's test is used for the determination of :
(A) Alkalinity (B) Dissolved Oxygen (C) Hardness (D) Ammonia
48. A device used in spat collection of mussel is :
(A) Rack (B) Ren (C) Reef (D) Raft
49. 'Brine shrimp' is :
(A) *Metapenaeus monoceros* (B) Rotifer
(C) Moina (D) Artemia
50. Viral disease in shrimp can be detected by :
(A) Widal Test (B) ELISA Test
(C) PCR Test (D) None of the above
51. A fish which is known as 'Miss Kerala' :
(A) *Puntius sarana* (B) *Puntius denisonii*
(C) *Etroplus maculatus* (D) *Poecilia reticulata*
52. An example for cephalopod is :
(A) Seer fish (B) Ray (C) Crab (D) Squid
53. Select an anesthetic used in fish seed transportation :
(A) Permutit (B) MS222
(C) Clinoptilolite (D) Malachite green

54. The process of artificial recruitment in seas by fish seeds produced in hatcheries :
(A) Sea ranching (B) Culture fishery (C) Capture fishery (D) Artificial reef
55. Select the odd one from below :
(A) Mahseer (B) Snake head (C) Magur (D) Singhi
56. Identify a protozoan disease from below :
(A) MBV (B) Saprolegniasis
(C) Fin rot (D) Ichthyophthiriasis
57. Choose the wrong statement from below regarding Acid sulphate soil :
(A) It is more suitable for brackish water culture.
(B) It is due to the formation of Pyrite in the soil.
(C) Its colour is pale yellow on top.
(D) Its pH is below 4.
58. The fish which is known as poor man's fish :
(A) Indian mackerel (B) Indian anchovy
(C) Indian oil sardine (D) Sole fish
59. The gonopodium in male Guppy is a :
(A) Modified anal fin (B) Modified pelvic fin
(C) Modified pectoral fin (D) None of these
60. Identify a predatory aquatic insect from below :
(A) Salvinia (B) Argulus (C) Limnometra (D) Ergasilus
61. Which among the following is not an institution functioning in the field of Aquaculture ?
(A) CIBA (B) CIFE (C) CIFA (D) ADAK

62. Which culture practice in Aquaculture obtains high production ?
 (A) Extensive culture (B) Semi intensive culture
 (C) Modified extensive culture (D) Intensive culture
63. Identify a common weed fish in culture pond :
 (A) *Aplocheilus* (B) *Tilapia* (C) *Magur* (D) *Pungasius*
64. A parasite known as 'fish lice' is :
 (A) *Lernaea* (B) *Argulus* (C) *Notonecta* (D) *Pseudomonas*
65. An ideal depth for a rearing pond is :
 (A) 2 - 3 m (B) 1.5 - 2 m (C) 0.5 - 1 m (D) Below 0.5 m
66. Expand FCR :
 (A) Food Conversion Ratio (B) Follicle Cell Ratio
 (C) Fat Conversion Rate (D) Food Collection Rate
67. Select a floating aquatic weed from below :
 (A) *Nymphaea* (B) *Pistia* (C) *Hydrilla* (D) *Marsilia*
68. Find out the correct statement about Common carp :
 (A) Bottom feeder (B) Breeds in captivity
 (C) Both (A) and (B) (D) None of the above
69. The desirable water pH for fish culture is :
 (A) 4 - 6 (B) 7 - 9 (C) 9 - 11 (D) 5 - 7
70. Name a binder used in fish feed preparation :
 (A) Fish meal (B) Corn oil
 (C) Soyabean cake (D) Carboxymethyl cellulose

71. In penaeid shrimp a 'gravid spawner' means :
- (A) A fully matured male shrimp
 (B) A female with ripe ovary
 (C) A female with ripe ovary and impregnation on Thelycum
 (D) A female which undergone eye stalk ablation
72. The salinity tolerance limit of milk fish is :
- (A) 0 - 40 ppt (B) 20 - 30 ppt (C) 10 - 20 ppt (D) 0 - 158 ppt
73. The eggs of common carp is :
- (A) Non - adhesive (B) Opaque (C) Adhesive (D) Floating
74. Culture of Angel fish is an example for :
- (A) Composite fish culture (B) Intensive culture
 (C) Extensive culture (D) Ornamental fish culture
75. Select the Euryhaline fish from below :
- (A) Milk fish (B) Silver carp (C) Grass carp (D) Gold fish
76. The term Pisciculture is related to :
- (A) Crab culture (B) Shrimp culture (C) Fish culture (D) Mussel culture
77. The component of brackish water farm which regulates water flow in pond is :
- (A) ETP (B) Sluice gate (C) Reservoir pond (D) Bund
78. The costliest ingredient used in fish feed is :
- (A) Carbohydrate (B) Fat (C) Protein (D) Vitamins
79. pH 4 is considered as :
- (A) Alkaline death point (B) Acidic death point
 (C) Neutral pH (D) Strong alkalinity

80. The pituitary gland of fish can be preserved by :
(A) Alcohol (B) Aceton - dried (C) Formalin (D) Both (A) and (B)
81. Identify the robotic submarine deployed to solve the mystery of lost malaysian plain MH 370.
(A) Ocean sheild (B) Hyxon 01 (C) Bluefin 21 (D) P - 3 Oreon
82. Who is the author of 'The accidental Prime Minister : the making and unmaking of Manmohan Singh ?
(A) Vikram Chandra (B) Kiran Desai
(C) Vijay Seshadri (D) Sanjay Baru
83. The supreme court of India recognised them as the third category of sex and directed the government to work for their upliftment are :
(A) Men (B) Transgenders (C) Lesbians (D) Women
84. The General Assembly of the united Nations passed the UDHR on :
(A) 10 December 1946 (B) 10 December 1947
(C) 10 December 1948 (D) 10 December 1949
85. Bhoodan Movement in India was launched by :
(A) Acharya Vinoba Bhave (B) Acharya Narendra Dev
(C) Jayaprakash Narayan (D) Ram Manohar Lohya
86. The constitution of India Provides an Election Commission under Article :
(A) 320 (B) 324 (C) 327 (D) 329
87. Who presides over the joint sitting of the two houses of the parliament ?
(A) President of India (B) Vice President of India
(C) Chief Justice of India (D) Speaker of Lok Sabha

88. Who was the Prime Minister of India when Mandal Commission was appointed to identify the creamy layer among backward classes ?
(A) Charan Singh (B) Indira Gandhi (C) Morarji Desai (D) V. P. Singh
89. Central Drug Research Institute is located at :
(A) Lucknow (B) Pune (C) New Delhi (D) Ahmedabad
90. Which of the following is the currency of Ukraine ?
(A) Ukrainian Ruble (B) Ukrainian Dollar
(C) Ukrainian Hryvnia (D) Ukrainian Pound
91. Kerala observed the 80th anniversary of the following incident on 1 November 2011 :
(A) Temple Entry Proclamation. (B) Nivarthana Agitation.
(C) Malabar Mutiny. (D) Guruvayur Satyagraha.
92. The flowering hormone of plants is :
(A) Florigen (B) Ethylene (C) Cytokinins (D) Gibberellins
93. Which instrument is used to determine the boiling points of liquids ?
(A) Hydrophone (B) Hypsometer
(C) Hygroskop (D) Hygrometer
94. Lux is used to measure :
(A) Wavelength (B) Astronomical distance
(C) Intensity of illumination (D) Magnetic flux
95. The acid commonly used in car batteries is :
(A) Nitric Acid (B) Sulphuric Acid
(C) Hydrochloric Acid (D) Acetic Acid

96. The medicine used in the treatment of Tuberculosis is ;
- (A) Streptomycin (B) Aspirin (C) Anacin (D) Tetracycline
97. Poliomyelitis is caused by :
- (A) Bacteria (B) Virus (C) Fungus (D) Protozoa
98. The place where Nana Saheb led the revolt of 1857 is :
- (A) Delhi (B) Lucknow (C) Faizabad (D) Kanpur
99. Which of the following organization won the Nobel Prize for peace in 2012 ?
- (A) OPCW (B) IPCC (C) EU (D) IAEA
100. "One Vision, One identity, One Community" is the motto of :
- (A) NAM (B) ASEAN (C) SAARC (D) UNESCO

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