

## Subject: Fisheries Resource Management

1. The size of Medium reservoir ranges from
  - a. 1000-5000 ha
  - b. 1000-4000 ha
  - c. 1000-3000 ha
  - d. 1000-2000 ha
2. Which state is having highest area of small reservoir?
  - a. Tamil Nadu
  - b. Andhra Pradesh
  - c. Gujarat
  - d. Rajasthan
3. The average national yield from small reservoirs in India is nearly
  - a. 50kg/ ha
  - b. 55 kg/ha
  - c. 45 kg/ha
  - d. 53 kg/ ha
4. The most common forms of enhancement followed in Indian reservoirs is
  - a. Cultured based fisheries
  - b. Cultured based fisheries and stock enhancement
  - c. Stock enhancement
  - d. Captured based fisheries
5. *Oreochromis mossambicus* was first introduced in India during the year of
  - a. 1952
  - b. 1954
  - c. 1957
  - d. 1960
6. Scientific name of mirror carp is
  - a. *Cyprinus carpiospecularis*
  - b. *Cyprinus carpiocommunis*
  - c. *Cyprinus carpiionudus*
  - d. *Cyprinus carpio*
7. Polygamy means courtship behaviour between fisheries like
  - a. Male has multiple partners
  - b. Female has multiple partners
  - c. Male has single partners
  - d. Female has single partners
8. In crustacean Molt inhibiting hormone is secreted by the organs ----
  - a. X Organ
  - b. Y Organ
  - c. Z Organ
  - d. W Organ

9. Salmonids found in Pacific Ocean are grouped under the genus -----  
a. *Oncorhynchus*  
b. *Salmo*  
c. *Keta*  
d. None of these
10. Which country developed the technique of “hypophysation” in a commercial scale?  
a. India  
b. Argentina  
c. Brazil  
d. Indonesia
11. The chemical used in fish pond for eradication of weed fish is  
a. 2-4 D  
b. 2-4 C  
c. Taficide  
d. Simazine
12. How much percentage (%) of rotenone is present In Derris root powder?  
a. 4  
b. 3  
c. 5  
d. 7
13. Common carp can tolerate salinity upto ----- ppt  
a. 7 ppt  
b. 9 ppt  
c. 10 ppt  
d. 6 ppt
14. Which one is used as egg collector in breeding hapa for Indian breeding method?  
a. Hydrilla  
b. Kakaban  
c. Ceratophyllum  
d. Pistia
15. What is the ratio of milt and diluent for long period preservation of milt  
a. 1:5  
b. 1:4  
c. 1:7  
d. 2.8
16. Which is the most favoured species of tilapia  
a. *Oreochromismossambicus*  
b. *Oreochromisniloticus*  
c. *Oreochromismacrochir*  
d. *Oreochromis aureus*

17. What is the optimum DO<sub>2</sub> for normal growth and reproduction in tropic water fish species?
- 1.0-5.0 mg/ litre
  - 5.0 mg/litre
  - 0.3-0.8 mg/litre
  - 0.8-1.0 mg/litre
18. What is the value of pH for best growth in tropic water species?
- 6-9
  - 5-10
  - 9-11
  - 4-8
19. What is the scientific name of freshwater shark?
- Wallagoattu*
  - Ompokpabda*
  - Ompokbimaculatus*
  - Sperataaor*
20. What is the scientific name of Thai magur?
- Clariusgaripepinus*
  - Clariusbatrachus*
  - Clariusdussumieri*
  - Clariusrita*
21. Cage culture was first originated in which country?
- Cambodia
  - China
  - Indonesia
  - India
22. First public display aquarium was established in which country?
- Japan
  - India
  - England
  - Bangladesh
23. How many days should fishes be starved before being exported?
- 3-4 days
  - 2-3 days
  - 4-5 days
  - 5-6 days
24. Hybridization between two species of the same genus known as
- Interspecific
  - Intraspecific
  - Intergeneric
  - Intrageneric

25. When male moves below the female in induced breeding is called
- Hypo gyne
  - Sub gyne
  - Laterogyne
  - Un gyne
26. The central part of scale is called ----
- Focus
  - Central part
  - Dermis
  - Radii
27. Colouration in fisheries is observed due to the presence
- Blood
  - Chromatophore
  - Skin
  - Muscles
28. An example of omnivorous fish is
- Heteropneustes fossilis*
  - Schizothorax sinuatus*
  - Ompokpabda*
  - Channa striatus*
29. An example of surface feeder fish is
- Labeocarla*
  - Channapunctata*
  - Walagaatto*
  - Labeocalbasu*
30. Feeding intensity of the mature fish decreases during
- Spawning season
  - After spawning season
  - Post spawning season
  - Breeding season
31. Intestine is short and nearly straight in
- Carnivorous fishes
  - Omnivorous fishes
  - Herbivorous fishes
  - Plankton feeder
32. Pyloric caeca is worked as
- Accessory food reservoirs
  - Accessory sensory reservoirs
  - Accessory energy reservoirs
  - Accessory respiratory organ

33. Haemoglobin is absent in which fish?  
a. Antarctic ice fish  
b. Hag fish  
c. American eel  
d. Gold fish
34. Which fishes are having more gill area and a large number of gill lamellae?  
a. Fast swimming fishes  
b. Sedentary fishes  
c. Slow moving fishes  
d. Column feeder fishes
35. Which fish use its skin as a respiratory organ?  
a. *Anguilla anguilla*  
b. *Channam arullius*  
c. *Ompokpabda*  
d. *Chandanama*
36. In which fish Family, only posterior portion of the kidney is fused  
a. Clupeidae  
b. Anguillidae  
c. Scombridae  
d. Lophidae
37. Fishes having limited salinity tolerance is called as  
a. Stenohaline  
b. Urohaline  
c. Thermohaline  
d. Technohaline
38. The young eel is known as  
a. Leptocephalus  
b. Brown eel  
c. Elvers  
d. Spat
39. Ovaries of fish are attached to the body wall by means of ----  
a. Mesovarium  
b. Mesorchia  
c. Both a and b  
d. None of these
40. Luminescent organ in fishes is known  
a. Photophores  
b. Luminescent cell  
c. Lightening organ  
d. None of these

41. What is the last cranial nerve observed in teleost?
- Optic nerve
  - Olfactory nerve
  - Vague nerve
  - Facial nerve
42. Lateral line system is composed of which sense organ?
- Neuromast
  - Neuroblast
  - Neurocell
  - Neuroflame
43. Towards the caudal end of the spinal cord in elasmobranchs, it shows a swelling, which is known as
- Urophysis
  - Adenophysis
  - Neurophysis
  - Rectophysis
44. Example of a Anadrinous fish is
- Salmon
  - Eel
  - Mackerel
  - Tuna
45. Biological Diversity Act was enacted in the year of
- 2002
  - 2004
  - 2005
  - 2007
46. Name of the state fish of Odisha is
- Tor tor*
  - Tor mahanadicus*
  - Tor putitora*
  - Chitalachitala*
47. Ampulla of Lorenzini are special sensory organ present in
- Shark
  - Squid
  - Sepia
  - Ray
48. SILO feed is developed by
- CIFT and CMFRI
  - CMFRI and CIFA
  - CIFRI and CIFE
  - CIFA and CIFT

49. First Fishermen's co-operative society was established in which state?  
a. Kerela  
b. Maharashtra  
c. West Bengal  
d. Punjab
50. Indian fisheries Act was effected from the year of  
a. 1897  
b. 1997  
c. 1996  
d. 1995
51. Environmental Protection Act was effected from the year of  
a. 1986  
b. 1995  
c. 1993  
d. 1990
52. Exclusive Economic Zone (EEZ) Act was effected from year of  
a. 1976  
b. 1979  
c. 1991  
d. 1995
53. How many numbers of article are covered up in CCRF?  
a. 10  
b. 12  
c. 13  
d. 14
54. National Agricultural Extension Project (NAEP) was launched in the year of  
a. 1993  
b. 1991  
c. 1994  
d. 1990
55. Extension Education was first introduced in the year of  
a. 1853  
b. 1998  
c. 1880  
d. 1881
56. Scientific name of Green mussel is  
a. *Perna viridis*  
b. *Perna indica*  
c. *Pinctada fucata*  
d. *Pinctada margaritifera*

57. The Government of India established the National Fisheries Development Board in the year of
- 2009
  - 2005
  - 2006
  - 2007
58. Most dominant species among ribbon fishes all along the Indian coast is
- Trichiurus russelli*
  - Trichiurus lepturus*
  - Trichiurus salava*
  - Trichiurus muticus*
59. Bombay – duck is traditionally carried out by a stationary bag net called
- Ball net
  - Dol net
  - Gill net
  - Lamp net
60. What is the parameter used in prediction of Potential Fishing Zone?
- Sea surface temperature
  - Chlorophyll a
  - Both a and b
  - Water salinity
61. One of the smallest shark species is
- Eridacnis radcliffei*
  - Rhincodon typus*
  - Carchahinus leucas*
  - Scoliodon laticudus*
62. Example of coastal tuna species in small scale fisheries is
- Euthynnus affinis*
  - Both a and c
  - Axiusthazard*
  - Thunnus albacores*
63. Scientific name of Banana shrimp is
- Fenneropenaeus merguensis*
  - Fenneropenaeus indicus*
  - Fenneropenaeus penicillatus*
  - Parapenaeopsis stylifera*
64. Scientific name of reticulate crab is
- Portunus sanguinolentus*
  - Portunus pelagicus*
  - Charybdis feriatus*
  - Charybdis lucifera*



65. Head is absent in
- Bivalves
  - Gastropods
  - Cephalopods
  - None of these
66. Internal shell of squids known as
- Gladius and Pen
  - Shell
  - Sepion
  - Mentle
67. Scientific name of black clam is
- Villorita cyprinoides*
  - Meristrix casta*
  - Paphia malabarica*
  - Meristrix meristrix*
68. Scientific name of Indian squids is
- Loligo duvauceli*
  - Loligo uyii*
  - Sepia aculeata*
  - Sepia elliptica*
69. Example of coastal lake of India is
- Pulicat
  - Hirakud
  - Bhimanand
  - Vembanad
70. Most productive coast of India in terms of fisheries
- West coast
  - East coast
  - North east coast
  - South east coast
71. Which species is used for manufacturing of agar?
- Gracilaria
  - Sarconema
  - Veliceneria
  - Verticella
72. Example of submerged weed is
- Hydrilla
  - Valisneria
  - Ipomoea
  - Icornia

73. Nagarjun sagar reservoir is situated in
- Panjab
  - Andhra Pradesh
  - Madhya Pradesh
  - Rajasthan
74. Which species of Eagle ray found in Chilka lake is
- Aetobatus flagellum*
  - Aetobatus narinari*
  - Dasyatis imbricata*
  - Torpedo marmorata*
75. Total number of zoea stages observed to become megalopa larvae in crab is
- 5
  - 6
  - 4
  - 7
76. What is the total number of zoea stages seen in Prawn
- 12
  - 9
  - 10
  - 11
77. Thelycum is present in which type of sex in shrimp?
- Female
  - Male
  - Bothe a and b
  - None of these
78. Scientific name of Asian sea bass is
- Lates calcarifera*
  - Dicentrachus labrax*
  - Chanos chanos*
  - Mugil cephalus*
79. Scientific name of channel cat fish
- Ictalurus punctatus*
  - Clarias batrachus*
  - Heteropneustes fossilis*
  - None of these
80. Example of Protandrous hermaphrodites fish species is
- Monopteros albus*
  - Lates calcarifera*
  - Labrus Turdus*
  - Labrus merula*

81. In extension education system learners are
- Homogeneous
  - Heterogeneous
  - Both a and b
  - Informal
82. The degree to which a pair individuals communicated similar attributes like beliefs, social status and the like is
- Homophly
  - Heterophly
  - Empathy
  - Both a and c
83. In the fundamentals of ABC of good presentation, C stands for
- Common
  - Clarity
  - Clear
  - Clean
84. Example of individual method of communication system is
- Home vist
  - Group meeting
  - Group training
  - Study tour
85. Example of mass method of communication system is
- Mass meeting
  - Group meeting
  - Farm clinic
  - Personal letter
86. Example of Non projected visual aids is
- Chalk board
  - Drama
  - Puppet show
  - Telephone
87. One of the main character should have in poster presentation is
- Long
  - Colour
  - Planning
  - Effective
88. Full form of GIS mapping is
- Geographical information system
  - Geographic information syatem
  - Geological information system
  - Gross information system

89. Full form of CD-ROM is
- Common disc read only memory
  - Complex disc read only memory
  - Common disc read only memory
  - Compact disco read only memory
90. Gyandoot project was launched in the year of
- 2000
  - 1996
  - 1993
  - 1992
91. Who are the first to adopt a new idea in adopter categories?
- Innovators
  - Early adapters
  - Early majority
  - Late majority
92. Who are the last to adapt a new idea in adopter categories?
- Laggards
  - Early adapters
  - Innovators
  - Early majority
93. Lab to land project was introduced in India in the year of
- 1979
  - 1989
  - 1976
  - 1996
94. KVK was established in India in the year
- 1974
  - 1984
  - 1994
  - 1999
95. National Centre for Women in Agriculture (NRCWA) is situated in
- Panchasayar
  - Umerkote
  - Bhubaneshwar
  - Galipatna
96. Full form of CCRF is
- Code of Conductor for Responsible Fisheries
  - Common of Conductor for Responsible Fisheries
  - Code of Control for Responsible Fisheries
  - Code of Control for Restricted Fisheries

97. The red list criteria where there is no reasonable doubt that the last individual has died is called
- Extinct
  - Critically endangered
  - Endangered
  - Rare
98. Full form of TED is
- Table Equality Demand
  - Tree Essential Dose
  - Turtle Excluder Device
  - Turtle Exclusive Deviser
99. Marine Fisheries Regulation Act (MFRAS) of Odisha was enacted in the year of
- 1982
  - 1983
  - 1981
  - 1985
100. The Marine Products Export Development Authority Act (MPEDA) of India was enacted in the year of
- 1995
  - 1970
  - 1972
  - 1973
101. The inner most layer of fish ovary where oogonia are formed
- Peritoneum
  - Tunica albuginea
  - Germinal epithelium
  - Ovigerouslamilli
102. In Von-Bertalanffy equation “K” is the-
- Asymptotic length
  - Initial condition factor
  - Curvature parameter
  - Mortality rate
103. Short lived species such as *Sardinella longiceps* has “K” value (Growth coefficients) of
- Often >1
  - About <0.1
  - About 0.3
  - About 0.2
104. The Length-Weight relationship ( $W=aL^b$ ) is generally express in the form of a-
- Parabolic equation
  - Hyperbolic equation
  - Semi-circular equation
  - Sigmoid equation

105. Ford -walford plot is used for estimating-
- $L_{\infty}$  and K
  - Only K
  - $t_0$
  - Only  $L_{\infty}$
106. Heincke's method is used for estimating the
- Total mortality
  - Fishing mortality
  - Growth rate
  - Recrutement rate
107. Thompson and Bell method is a
- Holistic model
  - Prediction model
  - Historic data analysis model
  - Cohort analysis model
108. The "Virtual Population Analysis" model was developed by-
- Derzhavin
  - Beverton and Holt
  - Sparre and Venema
  - Pauly
109. The number of "epipodites" in shrimp is-
- 1 pair
  - 2 pair
  - 3 pair
  - 4 pair
110. In shrimp "Green lands" are situated in the-
- Antennae
  - Antennule
  - Abdomen
  - Telson
111. "Pampanos" belongs to-
- Carangidae
  - Leiognathidae
  - Lutjanidae
  - Sciaenidae
112. "Flying fishes" belongs to-
- Exocoetidae
  - Belonidae
  - Hemiramphidae
  - Sphyraenidae

113. “Negative Demand” means
- Target customers may be uninterested or indifferent to the product
  - Major part of the market dislikes the product and may even pay a price to avoid it
  - Consumers may share a strong need that can not be satisfied by any existing product
  - Demand that varies on a seasonal, daily or even hourly basis
114. “Rock Codes” falls under
- High value Pelagic fishes (PHV)
  - Low Value- Pelagic fishes (PLV)
  - High Value-Demersal fishes (DHV)
  - Low Value-Demersal fishes (DLV)
115. The Andaman and Nicobar Island has EEZ of
- 0.6 million km<sup>2</sup>
  - 0.9 million km<sup>2</sup>
  - 0.3 million km<sup>2</sup>
  - 0.8 million km<sup>2</sup>
116. Aliyar reservoir is situated in-
- Tamil Nadu
  - Kerala
  - Uttar Pradesh
  - Andhra Pradesh
117. The drag gill net used in Godavari river is known as-
- Benduvala
  - Alivivala
  - Kontevala
  - Katuvala
118. The coastal state of India having longest coast line is
- Tamil Nadu
  - Maharashtra
  - Gujarat
  - Kerala
119. Total fish production in India (2021-2022) is-
- 16.24 mmt
  - 14.28mmt
  - 16.11mmt
  - 18.22mmt
120. Occasional or secondary food
- Rarely enters to gut along with other food items
  - Eaten by the fish in small quantities, when available
  - Ingested in the absence of the basic food and on which the fish is able to survive
  - The natural food consumed by fish under favourable conditions

1.	<b>A</b>
2.	<b>A</b>
3.	<b>A</b>
4.	<b>B</b>
5.	<b>A</b>
6.	<b>A</b>
7.	<b>A</b>
8.	<b>A</b>
9.	<b>A</b>
10.	<b>C</b>
11.	<b>A</b>
12.	<b>C</b>
13.	<b>A</b>
14.	<b>A</b>
15.	<b>B</b>
16.	<b>B</b>
17.	<b>B</b>
18.	<b>A</b>
19.	<b>A</b>
20.	<b>A</b>
21.	<b>A</b>
22.	<b>C</b>
23.	<b>B</b>
24.	<b>A</b>
25.	<b>A</b>
26.	<b>A</b>
27.	<b>B</b>
28.	<b>A</b>
29.	<b>A</b>
30.	<b>A</b>

31.	<b>A</b>
32.	<b>A</b>
33.	<b>A</b>
34.	<b>A</b>
35.	<b>A</b>
36.	<b>C</b>
37.	<b>A</b>
38.	<b>C</b>
39.	<b>A</b>
40.	<b>A</b>
41.	<b>C</b>
42.	<b>A</b>
43.	<b>A</b>
44.	<b>A</b>
45.	<b>A</b>
46.	<b>B</b>
47.	<b>A</b>
48.	<b>B</b>
49.	<b>B</b>
50.	<b>A</b>
51.	<b>A</b>
52.	<b>A</b>
53.	<b>B</b>
54.	<b>A</b>
55.	<b>A</b>
56.	<b>A</b>
57.	<b>C</b>
58.	<b>B</b>
59.	<b>B</b>
60.	<b>C</b>

61.	<b>A</b>
62.	<b>B</b>
63.	<b>A</b>
64.	<b>B</b>
65.	<b>A</b>
66.	<b>A</b>
67.	<b>A</b>
68.	<b>A</b>
69.	<b>A</b>
70.	<b>A</b>
71.	<b>A</b>
72.	<b>D</b>
73.	<b>B</b>
74.	<b>A</b>
75.	<b>A</b>
76.	<b>D</b>
77.	<b>A</b>
78.	<b>A</b>
79.	<b>A</b>
80.	<b>B</b>
81.	<b>B</b>
82.	<b>A</b>
83.	<b>B</b>
84.	<b>A</b>
85.	<b>A</b>
86.	<b>A</b>
87.	<b>B</b>
88.	<b>B</b>
89.	<b>A</b>
90.	<b>A</b>

91.	<b>A</b>
92.	<b>A</b>
93.	<b>A</b>
94.	<b>A</b>
95.	<b>C</b>
96.	<b>A</b>
97.	<b>A</b>
98.	<b>C</b>
99.	<b>C</b>
100.	<b>C</b>
101.	<b>C</b>
102.	<b>C</b>
103.	<b>A</b>
104.	<b>A</b>
105.	<b>A</b>
106.	<b>A</b>
107.	<b>B</b>
108.	<b>A</b>
109.	<b>C</b>
110.	<b>A</b>
111.	<b>A</b>
112.	<b>A</b>
113.	<b>B</b>
114.	<b>C</b>
115.	<b>A</b>
116.	<b>A</b>
117.	<b>A</b>
118.	<b>C</b>
119.	<b>A</b>
120.	<b>B</b>