



Booklet Series

B

No. of Printed Pages : 16

Serial Number of the
Test Booklet

604056

PAPER CODE

PAPER/II-06/AFI

Roll No. : _____

Name of the Candidate : _____

Test Duration : 03 Hours

Total Questions : 100

Total Maximum Marks : 200

INSTRUCTIONS TO CANDIDATES

1. Candidates will be admitted to the Examination Hall/Room on production of their Admit Card and Original ID such as **EPIC/Aadhaar/Driving License** with a view to establish the true identity of the candidate.
2. Candidates shall reach the venue of examination at least 30 minutes in advance and admission will be refused to a candidate who is late by 10 minutes from the start of the examination.
3. No candidate shall be permitted to leave the Examination Hall/Room until the time for the examination is over or until permitted to do so but not until the half of the allotted time.
4. Candidates must use a **BLUE/BLACK** ball point pen ONLY to make entries on the OMR Answer Sheet.
5. The candidates should not bring any articles (other than those specified above) such as books, notes, loose sheets, mobile phones, pagers, digital diaries, calculators, smart watches, etc. inside the Examination Hall/Room. Any candidate found in possession of the said articles will be liable to be de-barred from applying all future examinations to be conducted by the Board.
6. After receiving the Test Booklet with OMR inserted, the candidates may pull out the OMR Answer Sheet and fill in the necessary details. However the candidates are not allowed to break open the seal of the Test Booklet until the invigilator informs them to do so.
7. Mark carefully your Roll Number, Question Booklet Code and Booklet Series on the OMR Answer Sheet and append signature at the appropriate place. Write your Roll Number and **Name in the Question Booklet**. In the absence of the Roll Number and Question Booklet Series on the OMR Answer Sheet, it may NOT be evaluated.
8. The entire Test is of Objective Type Questions comprising 100 questions.
9. Candidates must check that the Question Booklet contains 100 multiple choice questions. If any discrepancy found, report to the invigilator immediately.
10. Every question carries a total of 2 marks each. Candidates will also keep in mind that there is negative marking of $1/3^{\text{rd}}$ for every wrong answer.
11. Rough work may be done on the space provided in this Question Booklet, but not on the OMR Answer Sheet.
12. In the event of a mistake made in marking the Roll Number in the OMR Answer Sheet or the OMR Series the candidates will not be given a new OMR Answer Sheet but he/she will be allowed to use whitener or correcting fluid for correction of the Roll Number and the Booklet Series only.
13. **Change of answer will not be permitted in the OMR Answer Sheet. Using of correcting fluid (of any sort) will be treated as wrong attracting negative marking.**
14. The candidates must abide by such instructions as may be specified on the cover of the Answer Paper or instructions to candidates given at the back of the Admit Card. If a candidate fails to do so or indulges in improper conduct, he/she will render himself/herself liable to expulsion from the examination or such other punishment as the Board deemed fit to impose.
15. At the end of the Test, candidates must submit the OMR Answer Sheet to the invigilator on duty. Candidates shall be allowed to take their Question Booklet only after the end of the examination session.
16. Any candidate found to be intoxicated with alcohol and/or psychotropic substances will be expelled from the Examination Hall/Room.
17. Examination centre once opted cannot be changed.

PLEASE REFER THE BACKSIDE OF THE QUESTION BOOKLET FOR MORE INSTRUCTIONS.

SEAL

PAPER/II-06/AFI



1. Consider the following fishes :

X. *Clarias batrachus* (magur)



Y. *Heteropneustes fossilis* (singhi)

Which of the following statements are true related to them ?

- (A) No consumer preference
- (B) Can't be grown in swamps
- (C) Both are air breathing
- (D) None of the above statements are true

2. National Fisheries Development Board was established in the year

- (A) 2000
- (B) 2006
- (C) 2016
- (D) 2020

3. Algal toxicosis is caused by

- (A) Less fishes in water
- (B) Less blue green algae in lake
- (C) More fishes in water
- (D) Bloom condition of blue green algae

4. Lordosis is related to



- (A) Deformity in blood
- (B) Deformity in muscle
- (C) Deformity in vertebral column
- (D) Deformity in liver

5. Headquarters of Institute of Applied Manpower Research is located at



- (A) Chandigarh
- (B) New Delhi
- (C) Tirupathi
- (D) Hyderabad

6. The National Academy of Agricultural Research and Management is located at



- (A) Chandigarh
- (B) New Delhi
- (C) Tirupathi
- (D) Hyderabad


7. Fishes which spend major part of their lives in fresh water but migrate to marine water during breeding period for spawning are termed as



- (A) Potamodromous
- (B) Oceanodromous
- (C) Catadromous
- (D) None of the above

8. Fishes which spend major part of their lives in the sea but migrate to fresh water body during breeding period for spawning are termed as

- (A) Potamodromous
- (B) Oceanodromous
- (C) Anadromous
- (D) None of the above



9. BIS is
(A) Bureau of Indian Standards
(B) Bar of Indian Standards
(C) Bureau of Indian States
(D) None of the above
10. Prevention of Food Adulteration was enacted in
(A) 1947
(B) 1954
(C) 1990
(D) 2020
11. Most of the molluscs has excretory organ as
 (A) Nephridia
(B) Vent
(C) Neuridin
(D) None of the above
12. Which of the following is not a quality of Hagfishes ?
(A) Jawless
(B) Strictly marine
(C) Osmoconformers
(D) Shallow water habitat
13. Central Institute of Fisheries education was established at
(A) Chennai
(B) Hyderabad
(C) Mumbai
(D) Kochi

14. Headquarters of Central Institute of Fisheries Nautical and Engineering Training is located at
(A) Chennai
(B) Hyderabad
(C) Mumbai
(D) Kochi
15. The first Krishi Vigyan Kendra was established at 
(A) Pondicherry
(B) Bhopal
(C) Chandigarh
(D) None of the above
16. Code of Conduct for Responsible Fisheries was unanimously adopted by Food and Agricultural Organization (FAO) in
(A) 1990
(B) 1995
(C) 2020
(D) 2025
17. On the earth how much of the total water is fresh water ? 
(A) 23%
(B) 13%
(C) 3%
(D) 10%



18. Which of the following zone is a shallow water edge of the pond with plenty of light and rooted vegetation ?

- (A) Littoral zone
- (B) Limnetic zone
- (C) Profoundal zone
- (D) None of the above

19. All India Coordinated Research Project on air breathing fish culture was launched in

- (A) 1971
- (B) 1999
- (C) 2009
- (D) 2025

20. Central Institute of Fisheries Technology is located at

- (A) Chennai
- (B) Hyderabad
- (C) Mumbai
- (D) Kochi

21. Fishes which migrate from one fresh water body into another fresh water body are termed as

- (A) Potamodromous
- (B) Diadromous
- (C) Anadromous
- (D) Catadromous

22. Fishes which migrate from fresh water to marine water and vice versa are termed as

- (A) Potamodromous
- (B) Diadromous
- (C) Oceanodromous
- (D) None of the above

23. The optimum dissolved oxygen (D.O) content of pond water should be in the range of _____ for good fish growth.

- (A) 0.1 to 0.9 mg/litre
- (B) 1 to 3 mg/litre
- (C) 5 mg/litre to saturation level
- (D) 0 mg/litre

24. Fishes are

- (A) Anatherms
- (B) Psuedotherms
- (C) Endotherms
- (D) Ectotherms

25. The deep and lower zone without light, which extends beyond 200 meters in water column of deep lake is called

- (A) Euphotic zone
- (B) Limnetic zone
- (C) Aphotic zone
- (D) None of the above





26. The total length of rivers in India is about

- (A) 51000 km
- (B) 29000 km
- (C) 77000 km
- (D) 11000 km

27. GATT under World Trade



Organisation is

- (A) General Agreement on Trade and Tarrifs
- (B) General Agenda on Trade and Touch
- (C) General Agro Technology Table
- (D) None of the above

28. Blue revolution is related to which of the following ?

- (A) Copper sulphate
- (B) Copper chloride
- (C) Fishes
- (D) Cobalt Blue



29. Which of the following is giant fresh water prawn ?

- (A) Clarias batrachus
- (B) Penaeus monodon
- (C) Chanos chanos
- (D) Macrobrachium rosenbergii

30. Traditional practice of brackish aquaculture is famous in fields of pokkali, it is located in which of the following State ?

- (A) Kerala
- (B) West Bengal
- (C) Manipur
- (D) None of the above

31. Simple gears operated from boats and Canoes in inland and inshore waters, from decked vessels in coastal water is



- (A) Purse-seine
- (B) Gill netting
- (C) Bull trawling
- (D) Trap netting

32. Type of nets used in shallow waters which consists of cone-shaped bag of netting with ring shaped rigid structures and wing is

- (A) Fyke net
- (B) Gill net
- (C) Bull trawl
- (D) Trap net

33. Which of the following is commonly known as carp ?



- (A) Unio
- (B) Scoliodon
- (C) Labeo
- (D) Bombil



34. Sundried, salted form of Bombay duck is called

- (A) Unio
- (B) Scoliodon
- (C) Labeo
- (D) Bombil

35. Logtak lake is located in which of the following State ?

- (A) West Bengal
- (B) Kerala
- (C) Manipur
- (D) Rajasthan

36. Which of the following statement



is false ?

- (A) All fishes are aquatic animals
- (B) They are cold blooded animals
- (C) Heart is four chambered
- (D) None of the above

37. As per constitution, Fishing and fisheries within territorial waters is shown as

- (A) State subject
- (B) Union list
- (C) Concurrent list
- (D) None of the above

38. Coastal Aquaculture Authority Act came into existence in



- (A) 2005
- (B) 2020
- (C) 2025
- (D) None of the above

39. Which of the following chemical is not used in disinfection of Fish ?

- (A) Potassium permanganate
- (B) Sodium chloride
- (C) Hydrogen sulphide
- (D) None of the above

40. Which among the following is known as "wonder gift of nature" ?



- (A) Azolla
- (B) Phyobezars
- (C) Zoobezars
- (D) Spirulina

41. Black spot disease is caused by

- (A) Costia
- (B) Lingula sp.
- (C) Pseudomonas
- (D) Diplostomum sp.

42. Costiasis disease is caused by

- (A) Diplostomum sp.
- (B) Lingula sp.
- (C) Pseudomonas
- (D) Costia



43. Under favourable conditions, optimum temperature range for many cold water fishes is _____ degree centigrade.



- (A) 35-40
- (B) 24-30
- (C) 5-10
- (D) 14-18

44. Under favourable conditions, optimum temperature range for many warm water fishes is _____ degree centigrade.



- (A) 14-18
- (B) 24-30
- (C) 5-10
- (D) 35-40

45. Which of the following is herbivorous fish ?

- (A) Rohu
- (B) Channa
- (C) Rita rita
- (D) None of the above

46. Which of the following is a omnivorous fish ?

- (A) Rohu
- (B) Channa
- (C) Rita rita
- (D) Cirrhinus mrigala

47. Which of the following part is not present in carp spermatozoa ?

- (A) DNA
- (B) Mitochondria
- (C) Nucleus
- (D) Acrosome

48. Oxygen transfer from air to water is through



- (A) Condensation
- (B) Diffusion
- (C) Osmosis
- (D) Reverse osmosis

49. When single species of fish is cultured in the fresh water body, it is called

- (A) Mono-sex culture
- (B) Mono-culture
- (C) Poly-culture
- (D) Hybridization culture

50. When more than two species of fishes are cultured in same pond or lake at a time, it is called

- (A) Mono-sex culture
- (B) Mono-culture
- (C) Poly-culture
- (D) Hybridization culture



51. The Biological Diversity Act came into existence in

- (A) 2002
- (B) 2022
- (C) 2025
- (D) None of the above



52. Environmental Protection Act came into existence in

- (A) 1986
- (B) 1947
- (C) 2000
- (D) None of the above

53. The trade name for PA6 produce for fishing net purpose is

- (A) Xylon
- (B) Nylon
- (C) Dextron
- (D) Fisun

54. Trawling by using two boats is called



- (A) Bull trawling
- (B) Cow trawling
- (C) Smack trawling
- (D) None of the above

55. Which of the following is a group contact method ?

- (A) Farm visit
- (B) Home visit
- (C) Office call
- (D) Field trip

56. Which of the following is not a mass contact method ?



- (A) Exhibits
- (B) Campaigns
- (C) Office call
- (D) Circular letters

57. Central Institute of Fresh water Aquaculture (CIFA) is located at

- (A) Chennai
- (B) Bhubaneshwar
- (C) Kolkata
- (D) None of the above

58. Central Inland Fisheries Research Institute (CIFRI) is located at

- (A) Madagoan
- (B) Bhubaneshwar
- (C) Kochi
- (D) Barrackpore

59. Which of the following is a agastric fish ?



- (A) Catfish
- (B) Carps
- (C) Salmond
- (D) Tilapia



60. An individual with additional set of chromosome over normal diploid number is said to be
- (A) Polyploidy
(B) Haploidy
(C) Aneuploidy
(D) None of the above
61. In dry salting fish preservation, the moisture content is removed by
- (A) Diffusion
(B) Osmosis
(C) Percolation
(D) None of the above
62. Fish flesh and fish oil are rich in which of the following vitamins ?
- (A) Vitamin A
(B) Vitamin D
(C) Both Vitamin A and D
(D) None of the above
63. Among edaphic factor, total alkalinity of about _____ is the indicator of better productivity.
- (A) 50 ppm
(B) 10 ppm
(C) 20 ppm
(D) None of the above

64. Among edaphic factor, hardness above _____ level is indicator of better productivity.
- (A) 70 ppm
(B) 20 ppm
(C) 40 ppm
(D) None of the above
65. This is used to reduce friction when shooting and hauling up the trawl in small vessel
- (A) A gallows
(B) A dongal
(C) A bulwark
(D) A stern roller
66. The trawl is set on the 'side of the vessel' in which of the following ?
- (A) Stern trawlers
(B) Side trawlers
(C) Bull trawlers
(D) None of the above
67. Common carp can be induced to breed in hatcheries when the water temperature raises above _____ degree centigrade.
- (A) 10
(B) 20
(C) 5
(D) 0



68. In the process of nitrification the following process will be there

- (A) Nitrite to ammonia
- (B) Nitrate to nitrite
- (C) Ammonia to nitrate
- (D) None of the above

69. Embryo development in genome is activated by sperm but without any genetic contribution is in



- (A) Fertilization
- (B) Meiosis
- (C) Syngamy
- (D) Gynogenesis

70. The reproduction in poecilia spp. is through

- (A) Fertilization
- (B) Meiosis
- (C) Syngamy
- (D) Natural Gynogenesis

71. E-governance initiative for fisheries information system network is abbreviated as



- (A) FISHNET
- (B) FISHCOPPED
- (C) FISHCOPS
- (D) None of the above

72. As per which Schedule of Constitution of India, Regulations related to State and Central Government on Fisheries is specified ?

- (A) 5th schedule
- (B) 6th schedule
- (C) 7th schedule
- (D) 8th schedule

73. Vembanad lake is located at



- (A) Goa
- (B) Tamil Nadu
- (C) Kerala
- (D) Maharashtra

74. The headquarters of Marine Products Export Development Authority is located at

- (A) Thiruvananthapuram
- (B) Bhubaneswar
- (C) Kochi
- (D) Barrackpore

75. Which of the following is tiger prawn ?

- (A) *Clarias batrachus*
- (B) *Chanos chanos*
- (C) *Penaeus monodon*
- (D) None of the above



76. Which of the following is Milkfish ?

- (A) *Clarias batrachus*
- (B) *Penaeus monodon*
- (C) *Chanos chanos*
- (D) None of the above

77. Setting of a line with baited hooks or lures that is continually jerked is called



- (A) Trolling
- (B) Crafting
- (C) Trawling
- (D) Jigging

78. For Radurization of Fresh fish dose used is

- (A) 15 to 17 kGy
- (B) 5 to 7 kGy
- (C) 10 to 12 kGy
- (D) 1 to 3 kGy

79. Safe concentration of unionized ammonia levels for many tropical fish species is



- (A) 2.5 - 3.5 mg/litre
- (B) 0.02 - 0.05 mg/litre
- (C) 1.5 - 2.0 mg/litre
- (D) 5 - 6 mg/litre

80. Which of the following is a surface feeder ?



- (A) *Catla catla*
- (B) *Labeo rohita*
- (C) *Cirrhinus mrigala*
- (D) None of the above

81. Induced gynogenesis can be done using which of the following ?

- (A) X rays
- (B) UV rays
- (C) Sunrays
- (D) None of the above

82. Which of the following is usually aim to combine positive traits of parent species in their hybrid offspring ?

- (A) Hybridization
- (B) Inbreeding
- (C) Fertigation
- (D) None of the above

83. Standardized statistical tool adaptable to most fisheries in developing countries is

- (A) ARTFISH
- (B) AQUAa
- (C) FISHNET
- (D) FISHCOPFED



84. Which of the following is not a individual contact method ?

- (A) Farm visit
- (B) Home visit
- (C) Office call
- (D) Field trip



85. Which of the following technique is responsible for augmenting the carp seed production in our country ?

- (A) Inbreeding technique
- (B) Induced breeding technique
- (C) Out breeding technique
- (D) None of the above

86. All the cultivable major carps are

- (A) Homosexual
- (B) Heterosexual
- (C) Sapisexual
- (D) None of the above

87. Which of the following is a column feeder ?

- (A) Catla catla
- (B) Labeo rohita
- (C) Cirrhinus mrigala
- (D) None of the above

88. Angling is related to

- (A) Sport fishing
- (B) Aquarium
- (C) Pond culture
- (D) None of the above



89. Which of the following is the myofibrillar protein concentrate produced by the repeated washing of fish mince to remove water soluble nitrogenous matter and flavour compounds ?

- (A) Reef
- (B) Surimi
- (C) Bream
- (D) Snapper

90. The United Nations Convention on the Law of the sea entered into force in the year


- (A) 1990
- (B) 1994
- (C) 2000
- (D) 2004

91. Which of the following hormone is mostly used to achieve feminization in fishes ?

- (A) Methyl Testosterone
- (B) Estradiol 17 beta
- (C) Growth hormone
- (D) None of the above





92. The bag shaped net that is dragged behind a boat is called
(A) Drone
(B) Trasn timer
(C) Trawl
(D) Dongal
93. Mahi estuary is located in the State of

(A) Tamil Nadu
(B) Maharastra
(C) Kerala
(D) Gujarat
94. Which of the following is regarded as world's largest mangrove forest ?
(A) Mahanadi delta
(B) Kaveri delta
(C) Sundarbans
(D) Pichavaram delta
95. Which of the following is commonly known as fresh water mussel ?
(A) Unio
(B) Scoliodon
(C) Labeo
(D) Bombil

96. Which of the following is commonly known as dogshark ?

(A) Unio
(B) Scoliodon
(C) Labeo
(D) Bombil

97. Fish semen is known as

(A) Rope
(B) Milk
(C) Brood
(D) Milt

98. The yield of milt in peak breeding season is

(A) 30 - 35 ml/kg body weight
(B) 10 - 12 ml/kg body weight
(C) 20 - 25 ml/kg body weight
(D) 1 - 2 ml/kg body weight

99. Embryonic stem cells are derived from

(A) Ectoderm
(B) Endoderm
(C) Blastocyst
(D) Mesoderm

100. Which of the following is Catfish ?

(A) Clarias batrachus
(B) Penaeus monodon
(C) Chanos chanos
(D) None of the above

