The candidate should ensure that Question Paper Booklet No. of the Question Paper Booklet and Answer Sheet must be same after opening the Paper Seal / Polythene bag. In case they are different, a candidate must obtain another Question Paper. Candidate himself shall be responsible for ensuring this.

INSTRUCTIONS FOR CANDIDATES

1. Answer all questions.
2. All questions carry equal marks.
3. Only one answer is to be given for each question.
4. If more than one answers are marked, it would be treated as wrong answer.
5. Each question has four alternative responses marked serially as 1, 2, 3, 4. You have to darken only one circle or bubble indicating the correct answer on the Answer Sheet using BLUE BALL POINT PEN.
6. The OMR Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars carefully with blue ball point pen only.
7. 1/3 part of the mark(s) of each question will be deducted for each wrong answer. A wrong answer means an incorrect answer or more than one answers for any question. Leaving all the relevant circles or bubbles of any question blank will not be considered as wrong answer.
8. Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt as per rule.
9. Please correctly fill your Roll Number in OMR Sheet. 5 Marks can be deducted for filling wrong or incomplete Roll Number.
10. If there is any sort of ambiguity/mistake either of printing or factual nature then out of Hindi and English Version of the question, the English Version will be treated as standard.

Warning : If a candidate is found copying or if any unauthorized material is found in his/her possession, F.I.R. would be lodged against him/her in the Police Station and he/she would liable to be prosecuted. Department may also debar him/her permanently from all future examinations.

Do not open this Test Booklet until you are asked to do so.
1. In large reservoir, which gear is widely used to capture carps and cat fishes?
   (1) Drag net
   (2) Cast net
   (3) Gill net
   (4) Bag net

2. Oxidation of fat is known as
   (1) Rigor mortis
   (2) Rancidity
   (3) Elasticity
   (4) Flexibility

3. Sewage fed aquaculture is mainly practised in which state?
   (1) Assam
   (2) Manipur
   (3) Andhra Pradesh
   (4) West Bengal

4. Which of the following is not a fresh water oyster found in India?
   (1) Lamellidens marginalis
   (2) Pareysia corrugata
   (3) Hyriopsis schlegeli
   (4) Lamellidens corrianus

5. In the ecosystem, herbivores act as
   (1) Autotrops
   (2) Primary consumers
   (3) Secondary consumers
   (4) None of these
6. The source of plant origin protein in supplement diet is
   (1) Rice bran
   (2) Oil cake
   (3) Wheat bran
   (4) Barley

7. The typical aroma of smoked fish is due to
   (1) Phenols
   (2) Ketones
   (3) Acids
   (4) Aldehydes

8. The carp spermatozoa is activated by
   (1) Oil
   (2) Water
   (3) Alcohol
   (4) Glycerine

9. The ratio of male and female in eco-hatchery by body mass is
   (1) 2 : 3
   (2) 1 : 1
   (3) 1 : 2
   (4) 1 : 3

10. The recommended rate of juveniles in monoculture of freshwater prawn culture is
    (1) 5000/ha – 10000/ha
    (2) 10000/ha – 12000/ha
    (3) 20000/ha – 30000/ha
    (4) 50000/ha – 100,000/ha
11. निम्न में से हामी कौन सा है?
   (1) टायरोसिन
   (2) थायरोसिन
   (3) टायरामिन
   (4) गुआँनिन

12. ट्राप्सीन किसका विचित्रन करता है?
   (1) लिपिड
   (2) प्रोटीन
   (3) कार्बोहाइड्रेट
   (4) न्यूक्लिक एसिड

13. जल धारण क्षमता और फैलाव क्षेत्र के आधार पर जलाशयों को कितने भागों में बाँटा गया है?
   (1) दो समूह
   (2) पाँच समूह
   (3) तीन समूह
   (4) चार समूह

14. वृहद जलाशय का शेषक्षेत्र कौन सा है?
   (1) 100 से 500 हेक्टेयर
   (2) 5000 हेक्टेयर से अधिक
   (3) 1000 से 5000 हेक्टेयर
   (4) 1000 हेक्टेयर से कम

15. छोटे जलाशयों में औसत राष्ट्रीय पेड़ावर है:
   (1) 20 कि.ग्रा./हेक्टेयर
   (2) 30 कि.ग्रा./हेक्टेयर
   (3) 40 कि.ग्रा./हेक्टेयर
   (4) 50 कि.ग्रा./हेक्टेयर

16. उपजांगलता (सबगायनी) में:
   (1) नर मादा के पीछे चलता है।
   (2) मादा नर के पीछे चलती है।
   (3) नर मादा के ऊपर चलता है।
   (4) नर और मादा समानान्तर चलते हैं।

11. Which one is a hormone?
   (1) Tyrosine
   (2) Thyroxin
   (3) Tyramine
   (4) Guanine

12. Trypsin breaks the molecule of
   (1) Lipid
   (2) Protein
   (3) Carbohydrate
   (4) Nucleic acid

13. On the basis of water spread area and water holding capacity, reservoirs are classified into
   (1) 2 groups
   (2) 5 groups
   (3) 3 groups
   (4) 4 groups

14. What is the size of large reservoir?
   (1) 101 – 500 ha
   (2) > 5000 ha
   (3) 1000 – 5000 ha
   (4) < 1000 ha

15. The average national yield from small reservoir is
   (1) 20 kg/ha
   (2) 30 kg/ha
   (3) 40 kg/ha
   (4) 50 kg/ha

16. In subgyne
   (1) Male chase behind the female
   (2) Female chase behind the male
   (3) Male move above the female
   (4) Male and female move parallel
17. The number of autosomal chromosomes in catla are
(1) 24
(2) 30
(3) 48
(4) 44

18. Which of the following is not a freshwater prawn?
(1) *Macrobrachium malcolmsonii*
(2) *Macrobrachium idella*
(3) *Penaeus monodon*
(4) *Macrobrachium gangaeticum*

19. Which of the following formula is used for calculating the Morphoedapic Index (MEI)?
(1) $\text{MEI} = \frac{\text{Mean depth}}{\text{Specific Conductivity (\mu}$\text{mho/cm.)}}$
(2) $\text{MEI} = \frac{\text{Total Dissolved Oxygen (mg/L)}}{\text{Mean depth}}$
(3) $\text{MEI} = \frac{\text{Total Alkalinity (mg/L)}}{\text{Mean depth}}$
(4) $\text{MEI} = \frac{\text{Total Phosphorus (mg/L)}}{\text{Mean depth}}$
20. Example of submerged plant
   (1) Hydrilla
   (2) Najaj
   (3) Eichornia
   (4) Typha

21. Furunculosis is caused by
   (1) Aeromonas salmonicida
   (2) Cytophagapsy chrophila
   (3) Renibacterium salmoninarum
   (4) Vibrio salmonicida

22. Which one aerate the pond water?
   (1) Duck
   (2) Pig
   (3) Cow
   (4) Poultry

23. Match List – I with List – II and select correct answer by using the code given below the lists:

   **List – I**
   (A) Herbivorous
   (B) Carnivorous
   (C) Omnivorous
   (D) Detritivorous

   **List – II**
   (i) Grass carp
   (ii) Common carp
   (iii) Mirgal
   (iv) Chitala

   **Codes:**
   A B C D
   (1) (iv) (i) (iii) (ii)
   (2) (iii) (ii) (iv) (i)
   (3) (i) (iii) (i) (iv)
   (4) (i) (iv) (ii) (iii)
24. Silver carp is used for the control of
   (1) Microphyte
   (2) Algal bloom
   (3) Zooplankton
   (4) Macrophyte

25. Sterile fish is
   (1) Triploid
   (2) Polyploid
   (3) Diploid
   (4) Tetraploid

26. Which of the following is not a feed binding agent?
   (1) Agar agar
   (2) Wheat flour
   (3) Rice flour
   (4) Rice bran

27. Which of the following is not a direct cause of fish mortality?
   (1) Fishing
   (2) Disease
   (3) Predation
   (4) Non-availability of food

28. Jayanti rohu is an example of
   (1) Cross breeding
   (2) Induced breeding
   (3) Selective breeding
   (4) Natural breeding
29. शाकाहारी मछली में होती है:
   (1) छोटी आहारालाल
   (2) टु स्टॉमैक
   (3) बड़ी आहारालाल
   (4) चौड़ी आहारालाल

30. मछल्य शुक्राणु के लिए ज़रूरी प्रजेतेज्जेन्स तापमान है:
   (1) -196 °सेल्सियस
   (2) -169 °सेल्सियस
   (3) -119 °सेल्सियस
   (4) -157 °सेल्सियस

31. कौन सी विधि जनसंख्या ज्ञात करने का अधिकतम तरीका नहीं है?
   (1) प्राप्तीप गणना (धिशेण्डन) विधि
   (2) बाराबार उत्प उप (ईज फ्रयक्सेसी) विधि
   (3) सही गणना (एक्चूल्य काउंट) विधि
   (4) विचित्र कल्चर और दुबारा पकड़ना विधि

32. दो या अधिक मछल्य प्रजातियों का एक साथ पालन कहलाता है:
   (1) पॉली कल्चर
   (2) रेस-वे कल्चर
   (3) गोली कल्चर
   (4) पोल्ड कल्चर

33. जयंति रोहु________ द्वारा विकसित की है।
   (1) सी.एम.एफ.आर.आई.
   (2) सी.आई.एफ.ए.
   (3) सी.आई.बी.ए.
   (4) आर.जी.सी.ए.

29. Herbivore fishes have a
   (1) Short intestine
   (2) True stomach
   (3) Long intestine
   (4) Wide intestine

30. Cryopreservation temperature for fish sperm is
   (1) -196 °C
   (2) -169 °C
   (3) -119 °C
   (4) -157 °C

31. Which one of them is not a indirect method for population estimation?
   (1) Regression method
   (2) Age frequency method
   (3) Actual count method
   (4) Mark and recapture method

32. Culture of two or more fish species is known as
   (1) Polyculture
   (2) Race-way culture
   (3) Monoculture
   (4) Pond culture

33. Jayanti rohu was developed by
   (1) CMFRI
   (2) CIFAR
   (3) CIBA
   (4) RGCA
34. Fry of catla feeds on
   (1) Zooplankton
   (2) Phytoplankton
   (3) Detritus
   (4) Plant matter

35. Dyes is mainly used for marking in genetic studies
   (1) Eggs and fry
   (2) Scale
   (3) Adult male and female
   (4) Disease

36. During rigor mortis fish loses
   (1) Flexibility
   (2) Stiffness
   (3) Protein
   (4) Rancidity

37. In oily fish fat content is more than
   (1) 4%
   (2) 3%
   (3) 2%
   (4) 8%

38. Gonadotropins are produced by
   (1) Ovary
   (2) Hypothalamus
   (3) Pituitary gland
   (4) Blood
39. Which of the following material is used in organic aquaculture system?

(1) NPK
(2) Manure
(3) Drugs
(4) Antibiotics

40. Gonochorism is defined as individuals

(1) with both sexes at the same time
(2) which are male first and female afterwards
(3) with separate male and female sex
(4) which are females first and male afterwards

41. Maximum GSI (Gonadosomatic Index) of female *Labo rohita* is

(1) 16.40
(2) 2.20
(3) 2.90
(4) 10.50

42. After death of fish glycogen is converted into

(1) Acetic acid
(2) Lactic acid
(3) Hydrochloric acid
(4) Sulphuric acid
43. Match List – I with List – II and select correct answer by using the code given below the lists:

**List – I**
(A) Kissing gouramy  
(B) Guppy  
(C) Angel Fish  
(D) Black molly

**List – II**
(i) Pterophyllums sp.  
(ii) Helostoma temminelci  
(iii) Molliensia sp.  
(iv) Lebistes reticulatus

**Codes:**

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44. Match List – I with List – II and select correct answer by using the code given below the lists:

**List – I**
(A) Blue algae  
(B) Diatom  
(C) Green algae  
(D) Volvox

**List – II**
(i) Chlorophyceae  
(ii) Euglenine  
(iii) Cyanophyceae  
(iv) Bracillariophyceae

**Codes:**

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45. Fecundity of fish is not related to
   (1) Eggs sizes
   (2) Gonad size
   (3) Liver size
   (4) Weight of female fish

46. Herbicide Dicotox is effective in the control of
   (1) Azolla
   (2) Algal bloom
   (3) Duckweed
   (4) Hydrilla

47. In India, cage culture in marine waters was initiated in the year of
   (1) 2005
   (2) 2007
   (3) 2009
   (4) 2003

48. Which method is used by the extension workers to reach large number of people?
   (1) Farm visit
   (2) Organising Fairs
   (3) Personal letter
   (4) Home visit
49. Cryopreservation technique is used to preserve
   (1) Fish
   (2) Spawn
   (3) Scale
   (4) Sperm

50. Which of the following is not applicable for stunted fingerlings in grow-out pond?
   (1) Low survival
   (2) Better survival
   (3) High feed utilization
   (4) Better growth

51. Which one of these Indian major carp is surface feeder?
   (1) *Catla catla*
   (2) *Labeo rohita*
   (3) *Cirrhus mrigala*
   (4) *Labeo calbasu*

52. Stocking density of carp fingerlings in supper intensive fish culture is
   (1) 5000 – 6000/ha.
   (2) 7000 – 8000/ha.
   (3) 10000 – 11000/ha.
   (4) 15000 – 25000/ha.
53. एक्सट्रियम में कितने प्रकार के फिल्ट्रेशन यंत्र काम लेते हैं?
   (1) 2
   (2) 3
   (3) 4
   (4) 5

54. एक्सट्रियम की कौन सी मछली को ड्रेगन से पहचानते है?
   (1) डिस्कस
   (2) एंजिल
   (3) एरोवाना
   (4) गोल्ड फिश

55. बुलबनो का जाल बनाने वाली एक्सट्रियम की मछली है?
   (1) बार्ब
   (2) मोली
   (3) ग्यापी
   (4) गीरामी

56. कौन सी मछली में बुद्धिमत्ता होना सामान्य है?
   (1) वॉर्ड टेल
   (2) मोली
   (3) गाम्बसिया
   (4) ग्यापी

57. राजस्थान मछल्य अधिनियम, 1958 के अनुसार कत्ला, महासीर, रोहू व मृगाल निम्न कम से कम खरीदने व बेचने के लिए बाधित है?
   (1) 100 ग्राम
   (2) 2000 ग्राम
   (3) 1000 ग्राम
   (4) 500 ग्राम

53. Types of filtration systems used in aquarium are of
   (1) two types
   (2) three types
   (3) four types
   (4) five types

54. Which of the following aquarium fish is known as Dragon fish?
   (1) Discus
   (2) Angel fish
   (3) Arowana
   (4) Gold fish

55. The bubble nest builder aquarium fish is
   (1) Barb
   (2) Molly
   (3) Guppy
   (4) Gourami

56. Sex reversal is very common in
   (1) Sword tail
   (2) Molly
   (3) Gambusia
   (4) Guppy

57. Purchase and sale of fishes like Catla Mahaseer, Rohu and Mrigal are prohibited under weight of following as per the Rajasthan Fisheries Act 1958
   (1) 100 gm
   (2) 2000 gm
   (3) 1000 gm
   (4) 500 gm
58. Which of the following is a live bearer aquarium fish?
(1) Sword tail
(2) Barb
(3) Danio
(4) Rasbora

59. Lentic habitat pertains to
(1) Rivers
(2) Estuaries
(3) Oceans
(4) Lakes

60. Scientific name of dwarf gourami is
(1) Trichogaster lalius
(2) Puntius canchiorius
(3) Danio aequipinnatus
(4) Poecilia reticulata

61. Acidic soils are corrected by
(1) Lime
(2) Gypsum
(3) Cow dung
(4) Urea

62. Number of zoeal stages in Macrobrachium rosenbergii is
(1) 9
(2) 11
(3) 13
(4) 15

63. Infusoria is a
(1) Molluscan
(2) Protozoan
(3) Fish
(4) Crustacean
64. खरपत्वार मछली के निष्ठारण के लिए ________ गुड का प्रयोग करते हैं।
   (1) 1 प्रतिशत
   (2) 3 प्रतिशत
   (3) 2 प्रतिशत
   (4) 4 प्रतिशत

65. जबड़े के अंतरिक्ष मछली में अन्य स्थान पर कितने प्रकार के दांत पाए जाते हैं?
   (1) 3 प्रकार
   (2) 4 प्रकार
   (3) 2 प्रकार
   (4) 5 प्रकार

66. कौन से जलीय खरपत्वार में कैरोटीन और जन्द्रोफिल अधिक होता है?
   (1) हाइड्रिला
   (2) डक्वीड
   (3) जलकुम्भी
   (4) हरित जैविक

67. बलात्क फिस उप में अग्नि देना शुरू करती है?
   (1) दो महीने
   (2) छः महीने
   (3) आठ महीने
   (4) बारह महीने

64. For the eradication of weed fishes ________ jaggary is used.
   (1) 1%
   (2) 3%
   (3) 2%
   (4) 4%

65. The types of teeth in fishes which found other than Jaws are
   (1) 3 types
   (2) 4 types
   (3) 2 types
   (4) 5 types

66. Which aquatic weed is rich in carotens and xanthophyll?
   (1) Hydrilla
   (2) Duck weed
   (3) Water hyacinth
   (4) Green algae

67. The duck start egg laying at the age of
   (1) 2 months
   (2) 6 months
   (3) 8 months
   (4) 12 months
68. Super male is
   (1) XX
   (2) XYY
   (3) XY
   (4) XYX

69. Oil-soap emulsion technique was developed by
   (1) CIFE
   (2) CIFA
   (3) CIFRI
   (4) CIBA

70. Length weight relationship was given by
   (1) LeCerm
   (2) Alagaraja
   (3) Fulton
   (4) Pauly

71. The study of morphometric characters is known as
   (1) Studying hard parts
   (2) Counting of scales
   (3) Counting of fin rays
   (4) Measurements of body and its parts

72. In eutrophic water body, the mass mortality of fish occur due to
   (1) Shortage of food
   (2) High level of temperature
   (3) Low level of oxygen
   (4) All of these

68. Super male is
   (1) XX
   (2) XYY
   (3) XY
   (4) XYX

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72. In eutrophic water body, the mass mortality of fish occur due to
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   (3) Low level of oxygen
   (4) All of these
73. राजस्थान मत्स्य नावों का पंजीकरण किस विभाग द्वारा किया जाता है?
   (1) सिंचाई विभाग
   (2) परिवहन विभाग
   (3) मत्स्य विभाग
   (4) जनस्वास्थ्य एवं अभियंत्रिकी विभाग

74. राजस्थान मत्स्य कानून के अंतर्गत मत्स्य नियोजन बोर्ड सरकार ने शामिल किए हैं:
   (1) 16 जनवरी से 31 मार्च
   (2) 16 फरवरी से 30 अप्रेल
   (3) 16 जून से 31 अगस्त
   (4) 16 नवंबर से 31 जनवरी

75. एक ही वर्ष में उत्पादित मछलियों को कहते हैं:
   (1) वर्ष का मछली
   (2) आयु समूह
   (3) भर्ती
   (4) उपरोक्त में से कोई नहीं

76. मछली की प्राकृतिक मृत्यु दर के आकलन के लिए फॉर्मुला __________ द्वारा दिया गया था।
   (1) रिकर
   (2) बेवरटन
   (3) गुल्लंड
   (4) पाउली
77. The value of heritability can vary between
   (1) -1 to 1
   (2) 0 - 1
   (3) 1 - 2
   (4) 1 - 3

78. Dopamine antagonist present in ovatide is
   (1) Pimozide
   (2) Domperidone
   (3) Tamoxifen
   (4) None of these

79. Under which rule of Rajasthan Fisheries Act, 1953 fishing without license is illegal?
   (1) Section – 5
   (2) Section – 6
   (3) Section – 7
   (4) Section – 8

80. In which fish body sub-cylindrical up to pelvic compressed behind, head depressed, mouth small terminal, dorsal fin short inserted above tip of pectoral fin, pectoral with a strong a strong spine and anal fin long-based is
   (1) Ompok pabda
   (2) Wallago attu
   (3) Clarias batrachus
   (4) Heteropneustes fossilis
81. Which one of the following is an essential fatty acid?
   (1) Arachidonic acid
   (2) Stearic acid
   (3) Palmitic acid
   (4) Oleic acid

82. Scientific name of broad finned molly is
   (1) *Molliensia latipinna*
   (2) *Molliensia sphenops*
   (3) *Molliensia velifera*
   (4) *Colisa fasciatus*

83. The ratio of soap-oil emulsion used for eradication of aquatic insects is
   (1) 18 : 56
   (2) 56 : 18
   (3) 66 : 28
   (4) 28 : 66

84. Dropsy in fishes is caused by
   (1) Virus
   (2) Fungi
   (3) Bacteria
   (4) Algae

85. The pituitary glands are generally stored in
   (1) Glycerine
   (2) Alcohol
   (3) Water
   (4) Acid
86. सामान्यतः आर्गुलस कहलाता है:
(1) मस्ती जूँ
(2) सलामी कृमि
(3) जोंक
(4) सिंधुर कृमि

87. प्रतिकूली बाह्य परजीवी है:
(1) जोंक
(2) जाइरोडेक्टोस्टोलिस
(3) डैक्टीलोजाजरस
(4) जीवाणु

88. जलाशयों में पिंजरा स्थापित करने के लिए पानी की गहराई कम से कम ______ होनी चाहिए।
(1) 1 मीटर
(2) 2 मीटर
(3) 3 मीटर
(4) 6 मीटर

89. स्पाइरलिना स्पी. है:
(1) जीवाणु
(2) नीली शैवाल
(3) भूमी शैवाल
(4) साइनोबैक्टीरिया

90. पंख के सड़ने (फिनरोट) रोग ______ के द्वारा होता है।
(1) जीवाणु
(2) शैवास्त्र
(3) सैल्मोनेला
(4) कावक

86. Argulus is commonly called as
(1) Fish lice
(2) Anchor worm
(3) Leech
(4) Blood worm

87. A typical ectoparasite is
(1) Leech
(2) Gyrodactylus
(3) Dactylogyrus
(4) Bacteria

88. For installation of cage in reservoirs, depth of water should be at least
(1) 1 m
(2) 2 m
(3) 4 m
(4) 6 m

89. Spirulina sp. is a
(1) Bacteria
(2) Blue algae
(3) Brown algae
(4) Cyanobacteria

90. Fin rot disease is caused by
(1) Bacteria
(2) Virus
(3) Salmonella
(4) Fungi
91. Optimum temperature range for hatching IMC egg is
(1) 20-24 °C
(2) 10-15 °C
(3) 26-30 °C
(4) 15-20 °C

92. In which year freshwater pearl was produced by CIFA?
(1) 1957
(2) 1967
(3) 1977
(4) 1987

93. In inland cage culture, fry is fed at
(1) 2-3% of body weight once a day
(2) 4-5% of body weight once a day
(3) 2-3% of body weight twice a day
(4) 4-5% of body weight twice a day

94. Which of the following is not a type of stowage?
(1) Bulking
(2) Shelving
(3) Boxing
(4) Washing

95. Breeding season of *Catla Catla* is
(1) June to August
(2) January to March
(3) October to December
(4) April to May
96. Dissolved oxygen attains the highest level in pond at
   (1) 15:00 hrs.
   (2) 06:00 hrs.
   (3) 09:00 hrs.
   (4) 07:00 hrs.

97. Lesser water boatman (Corixa) is a/an
   (1) Aquatic insect
   (2) Fish spawn
   (3) Weed fish
   (4) Aquatic plant

98. The number of barbells in Ompok pabda is
   (1) 2
   (2) 4
   (3) 6
   (4) 8

99. In which of the following fish deep body, head enormous, mouth wide and upturned, scales large, pectoral fin large and caudal fin forked?
   (1) Catla
   (2) Rohu
   (3) Silver carp
   (4) Common carp

100. The maximum fish production is obtained from
    (1) Polyculture
    (2) Intensive culture
    (3) Semi-intensive culture
    (4) Extensive culture