

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

QUESTION BOOKLET

SERIES IV

Subjects : General English, General Knowledge & Aptitude & Fishery Science

BOOKLET SERIAL NO.

2140

Marks : 350

Time : 2½ hours

Read the following instructions carefully before you
begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This booklet contains **175 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen in following three parts:

Part-A-General English : 25 questions, Part-B-General Knowledge & Aptitude : 50 questions,

Part-C-Fishery Science : 100 questions

2. All Questions are compulsory.
3. You will be supplied the Answer sheet separately by the invigilator. You must complete the details of particulars asked for.
4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/double series marking shall not be evaluated.

Example :

Supposing the following question is asked :-

The Capital of Meghalaya is-

- A. Guwahati
- B. Kohima
- C. Shillong
- D. Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :-

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative C i.e. Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ball Point Pen only as below :-

(A) (B) (C) (D)

WHICH IS THE ONLY CORRECT METHOD OF ANSWERING

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
6. There will NOT be any negative marking for wrong answers.
7. The Answer Sheet must be handed over to the invigilator before you leave the Examination Hall.
8. No rough work is to be done on the Answer Sheet. Space for rough work has been provided in the question booklet.

PART - A - GENERAL ENGLISH

Marks : 50

Each question carries 2 marks :

Directions:(Q. No. 1-5) In these questions, out of four alternatives given, choose the one which is opposite in meaning of the underlined word:

1. The two shades are slightly different.
a) faintly b) considerably
c) significantly d) easily
2. He said he regretted that he had acted so hastily.
a) impulsively b) meticulously
c) recklessly d) rashly
3. Richard having being deposed, Henry became King.
a) usurped b) ousted
c) toppled d) elected
4. A man who is industrious is sure to succeed.
a) lackadaisical b) laborious
c) assiduous d) productive
5. The author had a vivid memory of his childhood.
a) graphic b) concrete
c) vague d) explicit

Directions : (Q. No. 6-10), Fill in the blanks with the appropriate preposition from the options given.

6. Elizabeth II was succeeded ____ Charles III.
a) with b) from
c) by d) for
7. Here is the boy you asked ____.
a) from b) by
c) for d) of
8. Jack insists ____ practicing the song over and over again.
a) of b) on
c) in d) to
9. After this, I wash my hands ____ you.
a) of b) from

- c) with d) for

10. A child is not able to distinguish good ____ evil.
a) with b) for
c) from d) by

Directions:(Q. No. 11-15) In these questions, out of four alternatives given, choose the one which best expresses the meaning of the underlined word:

11. Some beans are at least as nutritious as meat.
a) capricious b) salubrious
c) vicious d) unhealthy
12. He will be gladdened by the sight of the gardens.
a) size b) slight
c) display d) blithe
13. Delirious with happiness, he made an expensive purchase.
a) rational b) affected
c) ecstatic d) collected
14. We all admire a man of courage.
a) administer b) adore
c) aspire d) reward
15. The villagers were quite wary of the stranger.
a) aware b) cautious
c) serious d) fearless

Directions: (Q. No. 16-25) Choose the correct meaning for the words or phrases and idioms given below:

16. Hit the sack means:
a) go to work b) go to bed
c) go on a journey d) go away
17. A piece of cake means:
a) something hard b) something sweet
c) something soft d) something easy
18. Hold water means:
a) unreasonable b) invalid

c) true

d) null

19. Brought to light means:

a) to reveal

b) to uplift

c) to conceal

d) to deny

20. In a nutshell means:

a) lengthily

b) extensively

c) briefly

d) expansively

21. Abstract means:

a) tangible

b) concrete

c) physical

d) conceptual

22. Complement means:

a) appreciate

b) accompaniment

c) endorsement

d) adulation

23. Edible means:

a) poisonous

b) raw

c) indigestible

d) eatable

24. A state of peaceful happiness means:

a) enchantment

b) resentment

c) contentment

d) condiment

25. To make or to declare sacred means:

a) concentrated

b) cooperated

c) complicated

d) consecrated

PART - B - GENERAL KNOWLEDGE & APTITUDE

Marks : 100

Each question carries 2 marks :

26. Which church in Goa houses the mortal remains of St. Francis Xavier ?

- a) Se Cathedral
- b) Church of St. Anne
- c) S. Caetano
- d) Basilica of Bom Jesus

27. Which among the following are called as shooting stars ?

- a) Asteroids
- b) Meteors
- c) Comets
- d) Planets

28. The Tropic of Cancer passes through which of the following states of India ?

- a) Uttar Pradesh
- b) Assam
- c) Mizoram
- d) Odisha

29. Which of the following is the only ape found in India ?

- a) Gorilla
- b) Chimpanzee
- c) Mandrill
- d) Hoolock Gibbon

30. Which of the following is NOT a unit for measuring pressure ?

- a) Bar
- b) Torr
- c) Pascal
- d) Shake

31. Arthashastra was written by

- a) Tulsiram
- b) Abul Fazal
- c) Kautilya
- d) Jawaharlal Nehru

32. In which language is our national anthem written ?

- a) Bengali
- b) Hindi
- c) Urdu
- d) Sanskrit

33. In which year was the FIFA WORLD CUP first hosted in Asia ?

- a) 2006
- b) 2002
- c) 1998
- d) 1990

34. Which organ is affected by Japanese encephalitis ?

- a) Lungs
- b) Heart
- c) Brain and Spinal cord
- d) Liver

35. What should come in place of the question

mark (?) in the following question ?

$1/4^{\text{th}}$ of $1/2$ of $3/4^{\text{th}}$ of 52000 = ?

- a) 4875
- b) 4857
- c) 4865
- d) 4785

36. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the

same distance in $1\frac{2}{3}$ hours, it must travel at a

speed of ?

- a) 300 kmph
- b) 340 kmph
- c) 360 kmph
- d) 720 kmph

37. Which of the following rulers issued copper coins named as Jittal ?

- a) Mohammad Bin Tughlaq
- b) Firoz Shah Tughlaq
- c) Iltutmish
- d) Quli Qutub Shah

38. Maginot line exists between which country?

- a) Namibia and Angola
- b) France and Germany
- c) Germany and Poland
- d) USA and Canada

39. Which of the following is known as the Diamond City of India ?

- a) Panna
- b) Mumbai
- c) Surat
- d) Jaipur

40. Article 32 belongs to which part of the Indian Constitution ?

- a) Part III
- b) Part I
- c) Part IV
- d) Part II

41. A computer can be classified into how many generations ?

- a) 4
- b) 2
- c) 6
- d) 5

42. Chlorophyll is a naturally occurring chelate compound in which the central metal is

- a) Copper
- b) Iron
- c) Magnesium
- d) Calcium

43. Australia's former bowler Glenn McGrath was nicknamed as

- a) Pigeon
- b) Penguin
- c) Ostrich
- d) Big Bird

44. Entomology is the science that studies

- a) Behaviour of human beings
- b) Insects
- c) Formation of rocks
- d) None of these

45. Garampani sanctuary is located at

- a) Kohima, Nagaland
- b) Junagarh, Gujarat
- c) Gangtok, Sikkim
- d) Diphu, Assam

46. The Noble Peace Prize award is awarded in which city ?

- a) Stockholm, Sweden
- b) Munich, Germany
- c) Oslo, Norway
- d) Madrid, Spain

47. Guarantee to an exporter that the importer of his goods will pay immediately for the goods ordered by him is known as

- a) Inflation
- b) Letter of Credit
- c) Laissez-faire
- d) Confidentially agreement

48. Gravity setting chambers are used in industries to remove

- a) CO
- b) SO₂
- c) NO₂
- d) Suspended particulate matter

49. Fire temple is the place of worship in which religion ?

- a) Taoism
- b) Shintoism
- c) Zoroastriansim
- d) Judaism

50. The present ages of the father and the son are together 46 years. 5 years ago, the father was 11 times as old as his son. The age of the son after 5 years will be

- a) 14 years
- b) 13 years
- c) 12 years
- d) 11 years

51. If $a \# b = (a \times b) + b$ then $5 \# 7$ equals

- a) 12
- b) 35

c) 42

d) 50

52. The mean proportional of 0.02 and 0.32 is

- a) 0.34
- b) 0.3
- c) 0.16
- d) 0.08

53. If the altitude of the equilateral triangle is $\sqrt{6}$ cm, its area in cm² is

- a) $2\sqrt{2}$
- b) $2\sqrt{3}$
- c) $3\sqrt{3}$
- d) $6\sqrt{2}$

54. One side of a right angled triangle is 126 cm. The difference between the hypotenuse and the other side is 42 cm. The length of the hypotenuse is ?

- a) 210 cm
- b) 168 cm
- c) 378 cm
- d) 189 cm

55. A cone, hemisphere and a cylinder stand on equal bases and have the same height. The ratio of their volumes are

- a) 2:3:4
- b) 1:3:2
- c) 1:2:3
- d) 4:3:1

56. A children's park is in the shape of a trapezium with parallel sides 80m and 160m. If the distance between the parallel sides is 10m, its area is

- a) 1212 m²
- b) 1200 m²
- c) 1300 m²
- d) 1450 m²

57. In a certain code language, 134 means "good and tasty"; 478 means "see good pictures" and 729 means " pictures are faint." Which of the following digits stands for "see"?

- a) 6
- b) 9
- c) 3
- d) 8

58. If 'A' means subtraction, 'B' means Division, 'C' means addition and 'D' means multiplication, then $330B6A32C45D12 = ?$

- a) 540
- b) 563
- c) 582
- d) 653

59. A train takes 18 secs to cross a platform 162m long and 15 secs to cross another platform 120m long. The length of the train is

- a) 60m
- b) 81m
- c) 120m
- d) 90m

60. If 63, 87 and 123 are each divided by a num-

ber, the remainder is the same in each case. The greatest possible value of the divisor must be

- a) 12
- b) 6
- c) 16
- d) 18

61. The average of 11 numbers arranged in a certain order is 30. If the average of first 5 numbers is 25 and that of the last 5 is 28, then the 6th integer must be

- a) 75
- b) 65
- c) 60
- d) 70

62. The least number that must be added to 2887 so that the sum may be a perfect square is

- a) 30
- b) 21
- c) 29
- d) 54

63. If 6 men earn Rs 150 in 10 days, then earnings of 8 men in 7 days are

- a) Rs 70
- b) Rs 140
- c) Rs 210
- d) Rs 175

64. The HCF of 384, 432 and 1200 is

- a) 24
- b) 36
- c) 12
- d) 48

65. An observer 2.2 m tall is $30\sqrt{3}$ m away from a tower. The angle of elevation from his eye to the top of the tower is 30° . The height of the tower is

- a) 32.2 m
- b) 42.2 m
- c) 60 m
- d) 62.2 m

66. A number is multiplied by 2 and 16 is added to it. The result is divided by 2 and the original number is subtracted from the quotient. The remainder will be

- a) 6
- b) 0
- c) 2
- d) 8

67. Which scientist discovered the radioactive element radium ?

- a) Issac Newton
- b) Marie Curie
- c) Albert Einstein
- d) Benjamin Franklin

68. As per the Election Commission, youngsters attaining what age can apply in advance for electoral cards ?

- a) 15
- b) 16
- c) 17
- d) 14

69. Decision Referral System (DRS) associated

with which sport ?

- a) Cricket
- b) Football
- c) Hockey
- d) Lawn Tennis

70. The captain of a cricket team of 11 members is 26 years old and the wicketkeeper is 3 years older. If the ages of these two are excluded, the average age of the remaining players is one year less than the average age of the whole team. What is the average age of the team?

- a) 24 years
- b) 23 years
- c) 25 years
- d) 23.5 years

71. A, B and C take a work at Rs 24000. A alone can do the work in 20 days, B alone can do the same work in 30 days and C alone can do the same work in 24 days. Find the wages of A.

- a) Rs 9400
- b) Rs 6500
- c) Rs 6800
- d) Rs 9600

72. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is

- a) 322
- b) 320
- c) 345
- d) 300

73. A man sells a cow at a loss of 15%. If he had sold it for Rs 150 more he would have made a profit of 10%. What was the cost price of the cow ?

- a) Rs 660
- b) Rs 630
- c) Rs 600
- d) Rs 540

74. Rs 675 amounts to Rs 837 in 4 years at simple interest. If the interest rate is decreased by 2%, the amount will be ?

- a) Rs 729
- b) Rs 730
- c) Rs 753
- d) Rs 783

75. The difference of the greatest and the least fractions out of $\frac{6}{7}$, $\frac{7}{8}$, $\frac{8}{9}$ and $\frac{9}{10}$ is

- a) $\frac{3}{70}$
- b) $\frac{1}{56}$
- c) $\frac{1}{40}$
- d) $\frac{1}{72}$

PART - C - FISHERY SCIENCE

Marks: 200

Each question carries 2 marks :

76. Oxidative rancidity in fish is determined by estimation of

- a) Peroxide Value (PV)
- b) Trimethyl amine (TMA)
- c) Total Volatile Bases (TVB)
- d) None of the above

77. Case hardening happens in

- a) Freezing
- b) Chilling
- c) Drying
- d) Canning

78. Which is used as fish poison in nursery ponds?

- a) Mustard oil cake
- b) Mahua oil cake
- c) Groundnut oil cake
- d) Soyabean

79. In pig cum fish farming the most preferred exotic pig variety is

- a) Yorkshire
- b) Landrace
- c) Hampshire
- d) Berkshire

80. Red sea weeds are mostly used to produce

- a) Alginates
- b) Agar
- c) Liquid seaweed fertilizer
- d) All of the above

81. Participatory Rural Appraisal (PRA) conducted in the village based on philosophy :

- a) Direct observation
- b) Bottom - up approach
- c) Transact walk or guided field walk
- d) All of the above

82. Temperature maintained in cryopreservation of fish gametes and embryos is

- a) -20°C
- b) -196°C
- c) -80°C
- d) 30°C

83. 100 % male progeny can be produced by the process of

- a) Gynogenesis
- b) Androgenesis
- c) Parthenogenesis
- d) None of the above

84. 'Jayanti rohu' a variety of fish developed by CIFA through the method of

- a) Selective breeding
- b) Hybridization
- c) Polyploidy
- d) Gynogenesis

85. The causative agent of eye disease in Catla catla is

- a) *Aeromonas salmonicida*
- b) *Aeromonas hydrophila*
- c) *Aeromonas liquifaciens*
- d) *Vibrio anguillarum*

86. The problem of inbreeding depression in the fish hatchery can be minimized by

- a) Selective breeding technique
- b) Hybridization
- c) Maintaining effective breeding population size
- d) All of the above

87. Which of the following is a true hill stream fish ?

- a) *Chanda nama*
- b) *Garra nasuta*
- c) *Tor tor*
- d) *Clarias magur*

88. Accessory respiratory organ in *Heteropneustes fossilis* is

- a) Air bladder
- b) Labyrinthine organ
- c) Air tube
- d) Suprabranchial chamber

89. Which of the following ornamental fish is known as giant danio ?

- a) *Devario devario*
- b) *Devario aequipinnatus*
- c) *Devario malabaricus*
- d) *Danio dangila*

90. *Pistia stratiotes* is a

- a) Submerged aquatic plant
- b) Emergent aquatic plant
- c) Marginal aquatic plant
- d) Floating aquatic plant

91. Raceways type fish culture facilities are mostly suitable for

- a) Hilly region
- b) Plain areas
- c) Both hilly and plain area
- d) None of the above

92. Which of the following actions are taken into account during pond dike construction ?

- a) Construction and design height
- b) Settlement allowance
- c) Side slopes
- d) All of the above

93. India's world ranking in fish production through aquaculture is

- a) 3rd
- b) 1st
- c) 2nd
- d) None of the above

94. Which gland does not have a duct ?

- a) Endocrine gland
- b) Exocrine gland
- c) Composite gland
- d) All of the above

95. The eggs of common carp are

- a) Demersal
- b) Adhesive
- c) Pelagic
- d) Non - adhesive

96. During rigor mortis the fish flesh is becoming

- a) Acidic in nature
- b) Alkaline in nature
- c) Neutral
- d) Decomposed

97. Which vitamin is absent in fish ?

- a) Vitamin A
- b) Vitamin D
- c) Vitamin B12
- d) Vitamin C

98. The Ramsar convention on wetlands held in Iran in the year

- a) 1971
- b) 1972
- c) 1973
- d) 1974

99. Depressed body form in fish is found in

- a) Carps
- b) Coral reef fishes
- c) Catfishes
- d) Ribbon fishes

100. The limits of the EEZ from the coast is

- a) 12 nautical miles
- b) 20 nautical miles
- c) 120 nautical miles
- d) 200 nautical miles

101. The name 'plankton' is coined by

- a) Hynes
- b) Hensen
- c) Wetzel
- d) None of the above

102. End product of ATP degradation in fish is

- a) AMP
- b) IMP
- c) Hypoxanthine
- d) Inosine

103. Fish diversity in the high altitude waters is

- a) Very high
- b) High
- c) Medium
- d) Low

104. Heterocercal caudal fin is found in

- a) Sharks
- b) Salmons
- c) Carp
- d) Loaches

105. The most accepted theory of the origin of paired fins of fish is

- a) Gill Arch Theory
- b) Fin fold theory
- c) Dermal spine theory
- d) External gill theory

106. Various steps in a food chain are called

- a) Food web
- b) Energy flow
- c) Trophic level
- d) Energy web

107. Productive estuaries found in the Indian sub-continent are

- a) Salt marshes
- b) Mangrove forests
- c) Mud flats
- d) Rocky shores

108. Temperature and metabolic rate in fish is

- a) Directly proportional
- b) Inversely proportional
- c) Remains the same
- d) Not related

109. Stenohaline fishes can tolerate salinity range from

- a) 0 - 15 ppt
- b) 15 - 25 ppt
- c) 25 - 35 ppt
- d) 15 - 35 ppt

110. The last people to adopt new agricultural practices in a social system are known as

- a) Late majority
- b) Early majority
- c) Laggards
- d) Early adopters

111. *Gambusia affinis* is a

- a) Larvivorous fish
- b) Herbivorous fish
- c) Oviparous fish
- d) None of the above

112. Anadromous fish is exemplified by -

- a) Tuna
- b) Mackerel
- c) Hilsa
- d) Eel

113. In the vertical marine zonation, the bottom zone is known as

- a) Epipelagic zone
- b) Profundal zone
- c) Hadal zone
- d) Neritic zone

114. Caviar is a product obtained from

- a) Salmon
- b) Squid
- c) Sharks
- d) Sturgeons

115. Meghalaya State Aquaculture Mission 1.0 (MSAM) was launched in

- a) 2012
- b) 2010
- c) 2015
- d) 2011

116. Mulletts are found in

- a) Freshwater
- b) Brackish water
- c) Sea
- d) Rocky shores

117. RGL value is used to determine

- a) Feeding habit of fish
- b) Spawning season of fish
- c) Maturity stages of fish

d) Fecundity of fish

118. Fish scales contains

- a) Calcium b) Guanine
- c) Glucose d) All of the above

119. Which biochemical process is not a part of post mortem change in fish ?

- a) Autolysis b) Nitrification
- c) Oxidation d) Bacterial spoilage

120. In fish feed formulation, mustard oil cake is used as a source of

- a) Carbohydrate b) Fat
- c) Protein d) Mineral

121. The function of lymphocytes is

- a) Phagocytosis
- b) Anti - body production
- c) Blood clotting
- d) Bacterial detection

122. Which of the following is not a morphometric character ?

- a) Total length
- b) Standard length
- c) Head length
- d) Lateral line scale count

123. Secchi disc is used in the pond to measure

- a) Transparency b) Turbidity
- c) Conductivity d) Both a & b

124. The most important fish by-product used in pharmaceuticals is

- a) Fish body oil b) Fish liver oil
- c) Fish meal d) Fish manure

125. Raw sewage has

- a) High BOD values
- b) High Dissolved oxygen content
- c) Low CO₂ content
- d) Low bacterial load

126. In N E India, paddy cum fish farming is traditionally practised in

- a) Nagaland b) Arunachal Pradesh
- c) Tripura d) Assam

127. *Oncorhynchus mykiss* is the scientific name of

- a) Snow trout b) Brown trout
- c) Rainbow trout d) Brook trout

128. In duck cum fish farming which duck breed

is best as egg type ?

- a) Khaki Campbell b) Indian Runner
- c) Pekin d) Muscovy

129. The UNCLOS was signed in the year

- a) 1981 b) 1982
- c) 1983 d) 1984

130. Composite fish farming under the All India Coordinated Projects initiated by -

- a) ICAR - CIFRI b) ICAR - CIFT
- c) ICAR - DCFR d) ICAR - CIBA

131. Argulosis is caused by -

- a) Tape worm b) Fish lice
- c) Round worm d) Fluke

132. Aquatic insects in nursery ponds is controlled by applying

- a) Lime b) Cow dung
- c) Oil Soap emulsion d) Mustard oil cake

133. Range of salinity of estuarine water is

- a) 0.1 - 10 ppt b) 0.5 - 10 ppt
- c) 0.5 - 20 ppt d) 0.5 - 30 ppt

134. The fastest growing fish species among the Indian major carp is

- a) Rohu b) Catla
- c) Mrigal d) Silver carp

135. Scientific name of freshwater shark is

- a) *Heteropneustes fossilis*
- b) *Wallago attu*
- c) Murrels
- d) None of the above

136. Which is associated with quality assurance of fish product ?

- a) MPEDA b) IFS
- c) SART d) HACCP

137. Neurotoxin in canned fish is produced by

- a) *Salmonella* b) *Listeria*
- c) *Clostridium botulinum* d) None of the above

138. Isinglass is prepared from

- a) Skin of fish b) Liver of fish
- c) Air bladder of fish d) Gill of fish

139. Desirable range of water pH for fish farming is

- a) 4.5 - 7 b) 5.5 - 9
- c) 6.5 - 9 d) 7 - 9

140. One of the most critical aspects of fish production in biofloc based culture system is

- a) C : N ratio b) Continuous aeration
- c) Filtration of water d) None of the above

141. Applying of noxious materials into natural water bodies is banned in Meghalaya as per

- a) The Khasi Hills district Fisheries Act, 1954
- b) The Garo Hills district Fisheries Act, 1953
- c) Both a & b
- d) The Meghalaya Fisheries (Welfare of Fishermen) Rules, 1987

142. The process of transferring desirable foreign gene by microinjection to develop a new fish species is known as

- a) Gynogenesis
- b) Transgenesis
- c) Chromosome manipulation
- d) Androgenesis

143. The first KVK was established in 1974 at

- a) New Delhi b) Pondicherry
- c) Uttar Pradesh d) West Bengal

144. Which of the following is an 'In-situ' conservation method ?

- a) Establishment of 'Live gene Bank'
- b) Establishment of Zoo
- c) Declaration of sanctuary
- d) Cryopreservation technique

145. Recognizing the importance and potential of the fisheries sector, the Government of India launched a flagship scheme in 2020 is known as

- a) PM Posan Shakti Nirman Abhiyaan
- b) PM Matsya Sampada Yojana
- c) PM Kisan Samman Nidhi
- d) PM Krishi Sinchai Yojana

146. National Fish Farmer Day is celebrated on

- a) 5th June b) 2nd February
- c) 10th July d) 4th September

147. Which of the following hormone is not secreted by pituitary gland ?

- a) Gonadotropin hormone
- b) Prolactin
- c) Growth Hormone
- d) Adrenal Cortical Hormone

148. Lung fishes are commonly known as

- a) Actinopterygian b) Dipnoi
- c) Sarcopterygian d) Teleost

149. The most efficient food of fishes during nursery stage is

- a) Phytoplankton b) Zooplankton
- c) Algae d) Rice bran

150. Scientific name of the giant fresh-water prawn is

- a) Macrobrachium rosenbergii
- b) Macrobrachium malcolmsonii
- c) Macrobrachium idea
- d) Macrobrachium hendersonii

151. To grow carp fry to fingerling stage in the rearing pond, stocking density is recommended

- a) 1 - 2 million/ha b) 10 - 20 million/ha
- c) 2 - 3 lakhs/ha d) 20 lakhs/ha

152. Which of the following is used to produce bio fertilizer ?

- a) Lemna b) Navicula
- c) Azolla d) Daphnia

153. Aflatoxins are produced in natural fish feed by -

- a) Bacteria b) Parasites
- c) Virus d) Fungi

154. Microcystis is a

- a) Green algae b) Brown algae
- c) Blue - Green algae d) Dinoflagellate

155. The slogan 'from dependence to self-sufficiency' belongs to

- a) CIFRI, Barrackpore
- b) PM Matsya Sampada Yojana
- c) Meghalaya State Aquaculture Mission
- d) NFDB, Hyderabad

156. Pearl spot is the common name of

- a) Anabas testudineus b) Etroplus suratensis
- c) Puntius ticto d) Mugil cephalus

157. Pen and cage culture are basically

- a) Land based aquaculture
- b) Periphyton based aquaculture
- c) Water based aquaculture
- d) None of the above

158. The Portable Plastic Carp Hatchery made up of FRP is designed and developed by -

- a) CIFRI, Barack pore
- b) CIFA, Bhubaneswar
- c) CIBA, Chennai
- d) CIFT, Kochi

159. Which of the following does not belong to poly unsaturated fatty acids ?

- a) Linolenic Acid
- b) Eicosapentaenoic Acid
- c) Docosahexaenoic Acid
- d) Palmitic Acid

160. In the semi - intensive fish farming system productivity of the pond depends

- a) only on natural food
- b) on natural food, supplementary feed and fertilization of pond
- c) on artificial balanced feed
- d) All of the above

161. The first 'Live Gene Bank' for fish was established in

- a) USA
- b) Japan
- c) Hungary
- d) China

162. In which of the following mollusc species fresh water pearl can be produced ?

- a) Pinctata fucata
- b) Lamellidens marginalis
- c) Perna viridis
- d) Brotia costula

163. Coastal Regulation Zone (CRZ) notification was issued by GOI

- a) To protect and conserve coastal environment
- b) To encourage coastal fish farming
- c) To establish fishing industry
- d) None of the above

164. Scientific name of the 'White leg shrimp' is

- a) Penaeus monodon
- b) Penaeus indicus
- c) Metapenaeus affinis
- d) Litopenaeus vannamei

165. Quality of a fish feed is considered better when

- a) FCR of the feed is low
- b) FCR of the feed is high
- c) FCR is zero
- d) None of the above

166. Total fish production in India in the year 2020 was

- a) 20 MMT
- b) 14.16 MMT
- c) 10.43 MMT
- d) 3.72 MMT

167. The traditional culture of brackish water fish and prawn in the coastal rice field of West Bengal is known as

- a) Bheries
- b) Pokkali field
- c) Integrated fish farming
- d) None of the above

168. Composition of the synthetic hormone WOVA-FH is

- a) Salmon gonadotropin releasing hormone and domperidone
- b) Gonadotropin hormone and domperidone
- c) HCG and Gonadotropin hormone
- d) HCG and domperidone

169. Which of the following fish doesn't belong to Mahseer Group ?

- a) Neolissochilus hexagonolepis
- b) Tor putitora
- c) Tor tor
- d) Labeo pangusia

170. On Farm Testing (OFT) of a new technology is one of the mandates of

- a) KVK
- b) ICAR
- c) MPEDA
- d) SAU

171. Whirling disease in fish is caused by

- a) Saprolegnia
- b) Argulus
- c) Mexosoma cerebialis
- d) Aeromonas hydrophila

172. The phenomenon, 'Ocean upwelling' is associated with

- a) Divergence current
- b) Convergence current
- c) Coriolis Effect
- d) Wind

173. In 2019 - 20 per capita yearly fish consumption in Meghalaya was

- a) 8 kg/annum
- b) 3.02 kg/annum
- c) 10.98 kg/annum
- d) 5.54 kg/annum

174. Gas Bubble disease in fishes is caused due to

- a) Saturation of nitrogen gas
- b) Super saturation of dissolved oxygen
- c) Low concentration of dissolved oxygen
- d) Saturation of methane gas

175. Highest carp egg hatching rate is recorded in

- a) Glass Jar hatchery
- b) Bundh breeding technique
- c) Eco hatchery
- d) Double hatching hapa
