

ASRB NET

**Previous Year Paper
2014 Paper-I**

DO NOT OPEN THIS QUESTION BOOKLET UNTIL YOU ARE ASKED TO DO SO

AGRICULTURAL SCIENTISTS RECRUITMENT BOARD

**Administrative Officer/Finance & Accounts Officer Examination
2014
PAPER-I (Objective)**

Time Allowed: 2 Hours

Max. Marks: 200

INSTRUCTIONS

1. YOU SHOULD CHECK THAT THIS QUESTION BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES. IF SO, GET IT REPLACED.
2. This Question Booklet consists of four Sections. Section-A General Awareness, Section-B General Intelligence & Reasoning Ability, Section-C Arithmetical & Numerical Ability, Section-D Language Comprehension (Hindi/English). Each Section consists of 50 questions.
3. All questions are compulsory and carry one mark each.
4. Instructions given in the admission certificate should be followed strictly.
5. Mark your answer with Black ball point pen in the OMR Sheet provided to you. Mark your answers only in the manner indicated on OMR sheet.
6. After the examination is over, you should hand over to the Invigilator only the OMR Sheet. You are permitted to carry with you the Question Booklet.
7. There is no negative marking.
8. You must attempt Q.No.'s 151 to 200 either in Hindi or in English as per the medium chosen by you.

ध्यान दें: अनुदेशों का हिन्दी रूपान्तर इस प्रश्न पुस्तिका के मुख्य पृष्ठ पर छपा है।

[कुल पृष्ठ संख्या / Total pages 50]

Section A - General Awareness

1. Which one of the following metal is the lightest.
☒ (a) Mercury (b) Silver
(c) Lithium (d) Lead
2. Rat is
☒ (a) Oviparous (b) Ovoviviparous
☒ (c) Viviparous (d) Parthenogenetic
3. Ligament joins
(a) Two muscles ☒ (b) Two bones
(c) Muscles with bones (d) Muscles with cartilage
4. Golden rice will help in
(a) Producing petrol like fuel (b) Pest resistance
(c) Herbicide resistance ☒ (d) Alleviation of Vitamin 'A' deficiency
5. Bt. Cotton has been produced by
(a) In-Situ-hybridization of Bt. gene (b) Northern blotting of Bt. gene
☒ (c) Cloning of Bt. gene (d) Southern blotting of Bt. gene
6. Rain is called Acid Rain when its PH is below
☒ (a) 7 (b) 6
(c) 6.5 ☒ (d) 5.6
7. Effect of pollution is 1st marked on
(a) Micro organism ☒ (b) Vegetation
(c) Food Crops (d) Animal
8. Process of flowering is influenced by
(a) Acidity of the soil (b) Water in the soil
☒ (c) Photo periodism (d) Amount of green pigment
9. Southern most part of India i.e. Kanyakumari is
☒ (a) North of tropic of Cancer (b) South of the equator
(c) South of the Capricorn ☒ (d) North of Equator
10. Quartzite is metamorphosed
(a) Lime Stone (b) Obsidian
(c) Sandstone (d) Shale

11. Name of the strait where 'Adam Bridge' is situated
 (a) Bering street (b) Cook strait
 (c) Palk Strait (d) Talwan Strait
12. The Gayatri Mantra contained in the Rigved is dedicated to which diety
 (a) Agni (b) Marut
 ✓(c) Surya ✓(d) Savitri
- ✓13. Indian Green Revolution started from
 ✓(a) Pantnagar (b) Bangalore
 (c) Kanpur (d) Ludhiana
14. Global Competitiveness Report is related to which of the following organisation
 ✓(a) WTO ✓(b) World Economic Fourum
 (c) SAARC (d) EU
- ✓15. Octroi is levied and collected by
 (a) Centre (b) State
 ✓(c) Local bodies (d) Both (a & b)
16. When was the 1st session of Lok Sabha held
 (a) 15th Auguest, 1950 (b) 15th August, 1952
 ✓(c) 13th May, 1952 (d) 12th January, 1953
17. 'Holocaust Rememberance Day' observed on January 27, 2014, referes to event of which of the following wars?
 (a) Crimean War (b) First World War
 ✓(c) Second World War (d) Iran – Iraq war
- ✓18. Which of the following is a non-metal that remains liquid at room temperature?
 (a) Phosphorous ✓(b) Bromine
 (c) Chlorine (d) Helium
- ✓19. Which percentage of land area should remain under forest cover to maintain Ecological balance?
 (a) 10% (b) 5%
 ✓(c) 33% (d) None of the above
20. Full form of BOD is
 (a) Bacteriological Oxygen Demand ✓(b) Biological Oxygen Demand
 (c) Biological Oxide Demand (d) None of these

21. By which name cellular and molecular control of programmed cell death is known as
☒ (a) Apoptosis (b) Aging
☒ (c) Degeneration (d) Necrosis
22. Economic Justice as one of the objectives of the Indian Constitution has been provided in
 (a) The Preamble and the Fundamental rights
☒ (b) The Preamble and the Directive Principles of the State Policy
☒ (c) The fundamental Rights and Directive Principles of the State Policy
 (d) None of the above
23. In India deficit planning is used for raising resources for
☒ (a) Economic development
 (b) Redemption of Public debt
☒ (c) Adjusting the balance of payment
 (d) Reducing the foreign debt.
24. What does an antigen do?
☒ (a) Destroys harmful bacteria (b) Is used to treat poisoning
 (c) Lowers body temperature ☒ (d) Stimulates formation of antibodies
25. Hybridization is
 (a) A process of tilling the land
 (b) Downward movement of water through soil
 (c) Decayed vegetable matter
☒ (d) Cross-fertilization between two varieties
26. In which of the following pairs, the two substances forming the pair are chemically most dissimilar?
 (a) Sugar and Paper ☒ (b) Butter and Parafin Wax
 (c) Chalk and Marble ☒ (d) Charcoal and Diamond
27. Entomology is the science that studies
 (a) Behavior of human beings
☒ (b) Insects
☒ (c) The origin and history of technical and scientific terms
 (d) The formation of rocks
28. Garampani sanctuary is located at
 (a) Junagarh, Gujarat ☒ (b) Diphu, Assam
 (c) Kohima, Nagaland (d) Gangtok, Sikkim

- ✓ 29. Exposure to sunlight helps a person improve his health because
- (a) The infrared light kills bacteria in the body
 - (b) Resistance power increases
 - (c) The pigment cells in the skin get stimulated and produce a healthy tan
 - ✓ (d) The ultraviolet rays convert skin oil into Vitamin D
- ✓ 30. Guarantee to an exporter that the importer of his goods will pay immediately for the goods ordered by him, is known as
- ✓ (a) Letter of Credit (L/C)
 - (b) *laissez-faire*
 - (c) Inflation
 - (d) None of the above
31. Dumping is
- (a) selling of goods abroad at a price well below the production cost at the home market price
 - (b) the process by which the supply of a manufacture's product remains low in the domestic market, which fetches him better price
 - (c) Prohibited by regulations of GATT
 - ✓ (d) All of the above
- ✓ 32. Gravity setting chambers are used in industries to remove
- (a) SO_x
 - (b) NO_x
 - ✓ (c) CO
 - ✓ (d) suspended particulate matter
- ✓ 33. Friction can be reduced by changing from
- ✓ (a) sliding to rolling
 - (b) rolling to sliding
 - (c) potential energy to kinetic energy
 - (d) dynamic to static
34. The ozone layer restricts
- (a) visible light
 - ✓ (b) Infrared radiation
 - (c) X-rays and gamma rays
 - ✓ (d) Ultraviolet radiation
35. Eugenics is the study of
- ✓ (a) altering human beings by changing their genetic components
 - (b) people of European origin
 - (c) different races of mankind
 - (d) genetic of plants
36. The Union government has announced the setting up of "Jal Marg vikas" project on river Ganga to link which of the following places?
- ✓ (a) Allahabad and Haldia
 - (b) Allahabad and Kanpur
 - (c) Kanpur and patna
 - (d) Varanasi and Haldia

37. For purifying drinking water alum is used

- ☒ (a) for coagulation of mud particles
- (b) to kill bacteria
- (c) to remove salts
- (d) to remove gases

38. Free market is

- (a) a condition in the international market where nations do not impose customs duty or other taxes on import of goods
- ☒ (b) market where the price of a commodity is determined by free play of the forces of supply and demand
- (c) ports that are exempted from payment of customs duty on articles of commerce, primarily to encourage tourism
- (d) None of the above

39. Free surface of a liquid behaves like a sheet and tends to contract to the smallest possible area due to the

- ☒ (a) Force of adhesion
- (b) force of friction
- (c) centrifugal force
- ☒ (d) force of cohesion

40. Excessive secretion from the pituitary gland in the children results in

- ☒ (a) increased height
- ☒ (b) retarded growth
- (c) weakening of bones
- (d) None of the above

41. A genetically engineered form of brinjal known as the Bt-brinjal has been developed. The objective of this is

- ☒ (a) to make it pest-resistant
- (b) to improve its taste and nutritive quality
- (c) to make it drought resistant
- (d) to make it shelf-life longer

42. Which of the following do not belong to solar systems?

- (a) Asteroids
- (b) Comets
- (c) Planets
- ☒ (d) Nebulae

43. The first census was conducted in India at the time of

- ☒ (a) Lord Dufferin
- (b) Lord Lytton
- (c) Lord Auckland
- (d) Sir John Napier

44. Who was the most distinguished Hindi poet of Akbar's Court?

- ☒ (a) Birbal
- ☒ (b) Abdur Rahim Khan-I-Khana
- (c) Raja Bhagwan Dass
- (d) Raja Man Singh

45. The famous Brihadeeswara temple in Tanjore was built by _____
 (a) Pallavas (b) ☒ Cholas
 (c) Pandyas (d) Chalukyas
46. Harihara and Bukka founded which Indian Kingdom/dynasty?
☒ (a) Vijayanagar (b) Bahamani
 (c) The Marathas (d) The Tuglaq
47. Which of the following is not a constitutional body?
☒ (a) Election Commission (b) Finance Commission
 (c) Inter-state Council (d) ☒ National Advisory Council
48. Acting Chief Justice of India is appointed by the _____
 (a) Chief Justice of India
 (b) Chief Justice of India with previous consent of the President
☒ (c) President
 (d) President in consultation with the Chief Justice of India
49. The Lok Sabha is called in session at least _____
 (a) Once a year (b) ☒ Twice a year
 (c) Thrice a year (d) Four times a year
50. Which of the following forms of intellectual property can provide the longest protection?
 (a) Copy right (b) ☒ Patent
 (c) Trademark (d) Industrial designs

SECTION-B

GENERAL INTELLIGENCE & REASONING ABILITY

Directions for Ques. 51 to 53 : In the questions given below establish the relationship between the two words. Then from the given options select one which has the same relationship as of the given two words.

51. Leash is to Pet as Handcuffs is to:
 (a) Canning (b) Dacoits (c) ☒ Criminals (d) Robbers
52. Love is to Hate as Friend is to....
 (a) Trust (b) Companion (c) ☒ Enemy (d) Despise

53. COURT : JUSTICE

a) Product:Consumer

c) Government:Policeman

☒ b) Hospital:Treatment

d) Chief:Boss

Directions: Ques. 54 to 55 consist of jumbled letters. Against each question a hint has been provided to arrive at correct word. Rearrange the jumbled letters to form meaningful words and answer each question:

54. Write last letter of the rearranged word which is an edible crop:

B O S A E Y N A

a) A

b) Y

c) S

☒ d) N

55. Write central letter of the rearranged word which is a city in India:

R I A M U D A

a) D

b) M

☒ c) U

d) A

Directions for Ques. 56 to 58 : In each of the following questions, three words are alike in some manner. Spot the Odd one out.

56. Find the odd one out:

a) India Gate

☒ b) Gateway of India

c) Humayun's Tomb

d) Red Fort

57. Find the odd one out:

☒ a) Cashew nut

b) Almond

☒ c) Coconut

d) Walnut

58. a) Palace

☒ b) Residence

c) Portico

d) Villa

Directions for Ques. 59 to 60: Which of the following pair of number is different from the other three pairs?

59. ☒ a) 32, 13

b) 46, 20

c) 51, 24

d) 72, 45

60. ☒ a) 42, 14

☒ b) 56, 19

c) 69, 23

d) 108, 36

Directions for Ques. 61 to 62 : In the following questions, select the right option which indicates the correct code for the word or letter given in the question.

61. If MOTHERLAND is coded as 9206314758, then NORTH will be coded as:
- a) 72406 b) 52406 c) 52360 d) 52106

62. If PHILOSOPY is coded as HPLISOPOYH, ORNAMENTAL will be coded as
- a) ROANEMNTLA b) ONRAMNEALT c) ~~ROANEMTNLA~~ d) ROANEMNATL

Directions for Ques. 63 to 65 Read the statements carefully and answer the following questions:

P is the father of R, but R is not his son.
T is the daughter of R, U is the spouse of P.
Q is the brother of R, S is the son of Q.
V is the spouse of Q. W is the father of V.

63. Who is the Grandmother of S?
- a) W b) P c) R ☒ d) U
64. Who is the son of U?
- a) Q b) R c) T d) S
65. Who is the cousin of T?
- a) R b) Q c) W ☒ d) S

Directions Ques. 66-68: ASRB has purchased 100 tables. A painter is hired to write serial number on each table from 1 to 100. Answer following questions on the basis of the above arrangement:

66. How many times will he be required to write EIGHT ?
- a) 11 ☒ b) 19 ☒ c) 20 d) 21

67. How many times will he be required to write ZERO ?
- ☒ a) 10 ☒ b) 11 c) 12 d) 13

68. How many times will he be required to write two digit similar number pairs?
- ☒ a) 9 b) 8 c) 10 d) 11

69. What word will come in the second place if the following words are arranged in ascending order of weight?

1. Paperweight 2. Pencil 3. Pin 4. Knife
- ☒ a) Pencil b) Paperweight c) Knife ☒ d) Pin

70. ✓ If the following words are rearranged in the alphabetical order as in a dictionary, which will be the third word?

- a) Amphibian ✓ b) Amorphous c) Ambiguous d) Ambivalent

71. One day, while having his lunch, Mr. Pal observed the time in the mirror image of a clock as 4 hours 40 minutes. What was the actual time shown by the clock?

- a) 8 hours 20 minutes b) 7 hour 40 minutes
✓ c) 7 hour 20 minutes d) 8 hour 40 minutes

72. ✓ If day-after-tomorrow is Sunday, what was day-before-yesterday?

- ✓ a) Wednesday b) Thursday c) Friday d) Saturday

Directions for Ques.73 to 74 : Find out the one word among the options which cannot be formed by using the letters of the word given

73. ✓ MATURITY

- a) MART b) TRAY ✓ c) TRUE d) TRAM

74. ✓ CATASTROPHE

- a) TASTE b) CHEAP ✓ c) POUCH d) STARE

75. ✓ Find out the word among the options which can be formed by using the letters of the word REASONABLE

- a) STONE ✓ b) LONER c) BRACE d) OPERA

76. ★ If the '+' and 'x' signs of the following equations are interchanged, which will be the correct equation?

- a) $7 \times 5 + 3 = 20$
b) $4 + 9 \times 1 = 42$
c) $6 \times 5 + 8 = 88$
d) $2 + 11 \times 4 = 28$

77. ★ If '+' stands for multiplication, 'x' stands for addition, '-' stands for subtraction and '÷' stands for division, then what will be the result of the following expression?

$7 \overset{+}{\times} 4 \div 10 \overset{+}{\times} 2 \overset{x}{+} 5 = ?$

- a) 7 b) 0 c) 11 d) 75

78. ✓ If $3x + 5x = -8$, then $x + 1 =$

a) -2

b) -1

✓ c) 0

d) 1

79. ✓ If $y(x-1)=z$ then $x=$

a) $y-z$

✓ b) $z/y + 1$

c) $y(z-1)$

d) $z(y-1)$

Directions for Ques. 80 to 82 : In the context of the given statement which one of the following is correct?

- a) Both A and R are true and R is correct explanation of A.
- ✓ b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

80. Assertion (A) : Transformer is useful for stepping up or stepping down voltages.

Ⓐ Reason (R) : Transformer is a device used in DC circuits.

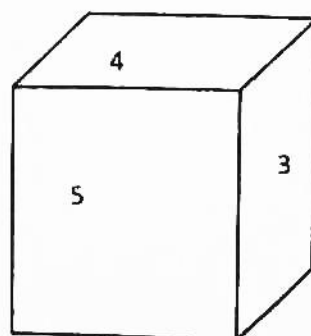
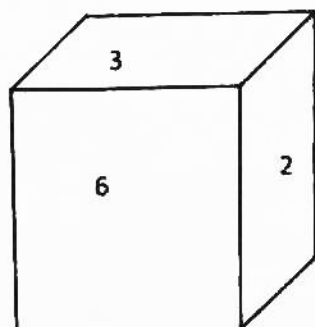
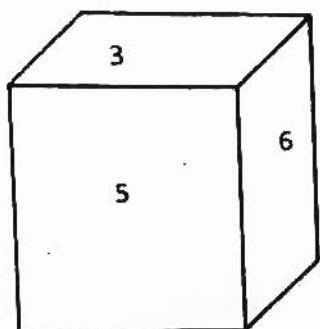
81. Assertion (A) : A Beaker filled with water at 4°C overflows if the temperature is decreased or increased.

Ⓐ Reason (R) : Density of water is maximum at 4°C .

82. Assertion (A) : The emergence of economic globalism does not imply the decline of socialist ideology.

Ⓐ Reason (R) : The ideology of socialism believes in universalism and globalism.

Directions for Ques. 83 to 84: Given below are three positions of the same dice having number 1 to 6.



✓ 83. Which number occurs on the face opposite of face 5?

- a) 1 ✓ b) 2 c) 3 d) 6

✓ 84. The face on the bottom in the second dice has the number:

- a) 5 b) 4
✓ b) c) 1 d) cannot be determined

Directions for Ques. 85-87: Read the following information carefully and answer the questions that follow:

✓ The sum of the income of A and B is more than that of C and D taken together. The sum of the income of A and C is the same as that of B and D taken together. Moreover, A earns half as much as the sum of the income of B and D.

85. Whose income is the highest?

- a) A ✓ b) B c) C d) D

86. Which of the following statements is not correct?

- ✓ a) A earns more than B b) B earns more than D
c) C earns more than D d) B earns more than C

87. If A's income is Rs. 100,000 per annum and the difference between the income of B and D is the same as A's income, B's income is

- a) 50000 b) 80000 c) 100000 ✓ d) 150000

Directions for Ques. 88 to 90: In the following questions, complete or find the missing number:-

88. 9, 6, 16, 10, 30, 18, ? 34

- a) 40 b) 46 ✓ c) 58 d) 60

89. T, S, Q, N, ?, E

- a) K b) H ✓ c) J d) I

90. 2, 4, 12, 48, 240, ?

a) 1220

b) 1280

c) 1360

☒ d) 1440

91. In an election contested by two parties, Party D secured 12% more of the total votes than Party R. If Party R got 132,000 votes, by how many votes did it lose the election?

a) 300000

b) 168000

☒ c) 36000

d) 24000

92. A father is three times as old as his son. After fifteen years the father will be twice as old as his son's age at that time. Hence the father's present age is

a) 36 years

b) 42 years

☒ c) 45 years

d) 48 years

93. In a group of cows and hens, the number of legs are 14 more than twice the number of head. The number of cow is

a) 5

☒ b) 7

c) 10

d) 12

94. A mail clerk put 1 or 2 stamps on each of 20 envelopes, using a total of 36 stamps. On how many of the envelopes did the clerk put 2 stamps?

a) 4

b) 6

c) 12

☒ d) 16

☒ 95. What simple interest rate will Sameera need to secure to make Rs 2,500 in interest on a Rs 10,000 principal over 5 years?

a) 4%

☒ b) 5%

c) 6%

d) 7%

Directions for Ques. 96 to 100 :

A cube is painted red on two adjacent surfaces and black on the surface opposite to red surfaces and green on the remaining faces. Now the cube is cut into sixty four smaller cubes of equal size.

96. How many smaller cubes have only one surface painted?

a) 8

b) 16

c) 24

d) 32

97. How many smaller cubes will have no surface painted?

a) 0

b) 4

c) 8

d) 16

98. How many smaller cubes have less than three surfaces painted?

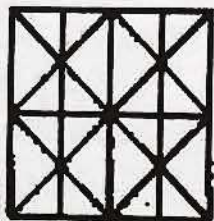
a) 8

b) 24

c) 29

☒ d) 48

99. Find the minimum number of straight lines required to make the given figure:



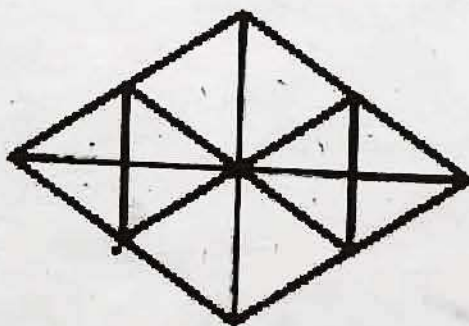
a) 17

b) 16

c) 15

☒ d) 14

100. Find the number of triangles in the given figure:



a) 18

b) 24

☒ c) 28

d) 30

Section C
Arithmetical and Numerical Ability

101. The highest common factor and ratio of two numbers are 6 and 3:7 respectively. The least common multiple of the numbers is
- (a) 84 (b) 42 (c) 126 (d) 252
102. The largest straight iron rod that can be kept on the square floor of the room is 12 m. The area of the floor is
- (a) 144 sq m (b) 72 sq m (c) $\sqrt{144}$ sq. m (d) $\sqrt{72}$ sq. m
103. If $3\sqrt{5} + \sqrt{125} = 17.88$ then the value of $\sqrt{80} + 6\sqrt{5}$ is
- (a) 13.41 (b) 20.46 (c) 21.66 (d) 22.35
104. The sum and difference of two numbers are 13 and 23 respectively. One of the numbers is
- (a) -5 (b) 5 (c) -18 (d) 28
105. At what angle the hands of a clock are inclined when it shows time half past 8.
- (a) 70^0 (b) 80^0 (c) 75^0 (d) 60^0
106. An elevator has the capacity of 12 adults or 20 children. How many adults can board on the elevator with 15 children?
- (a) 4 (b) 3 (c) 6 (d) 5
107. The price of 2 sarees and 4 shirts is Rs. 1600. With the same amount of money, it is possible to buy 1 sarees and 6 shirts. If someone wants to buy 12 shirts, money required to pay is
- (a) Rs. 1200 (b) Rs. 2400 (c) Rs. 4800 (d) Rs. 5000
108. The ratio of the present ages of father, mother and daughter is 7:6 : 2. The difference between the ages of mother and daughter is 24 years. The present age of father is
- (a) 43 years (b) 39 years (c) 38 years (d) 42 years

109. A sum of Rs.10,500 amounts to Rs.18900 on simple interest in 5 years..The rate of Interest is?
- (a) 15 % (b) 16 % (c) 14% (d) 16
110. Pipes A and B can fill a tank in 20 hours and 30 hours respectively and pipe C can empty the tank in 40 hours. If all the pipes are opened together, how much time will be needed to fill the tank.
- (a) $14\frac{1}{7}$ hours (b) $17\frac{1}{7}$ hours (c) $15\frac{1}{7}$ hours (d) $16\frac{1}{7}$ hours
111. Rahul last year thrice as old as his sister was and next year he will be twice as old as his sister will. After 4 years Rahul will be
- (a) 7 years (b) 4 years (c) 11 years (d) 12 years
112. A can do a work in 80 days. A works for 10 days and then B alone finishes the remaining work in 42 days. A and B together can complete work in
- (a) 20 days (b) 30 days (c) 25 days (d) 22 days
113. In a particular society, except 18 all are above 50 years. 15 are below the age of 50 years. How many people are there of exactly of 50 years age ?
- (a) 18 (b) 15 (c) 3 (d) 33
114. If a boat is moving in upstream and downstream with velocity 14 km/hr and 24 km/hr, then what is the speed of the stream ?
- (a) 10 km/hr (b) 19 km/hr (c) 5 km/hr (d) 12 km/hr
115. Find the value of $\frac{(0.65 \times 0.65 \times 0.65 - 0.008)}{(0.65 \times 0.65 + 0.13 + 0.04)}$
- (a) 0.45 (b) 0.85 (c) 0.045 (d) 0.085
116. What will be 160% of a number whose 200% is 140 ?
- (a) 112 (b) 130 (c) 140 (d) 200
117. A car travelling from Hyderabad to a certain place take 7 hrs to reach and return by increasing the speed by 12 km/hr, it takes 2 hours less time to reach Hyderabad. The distance travelled by car is
- (a) 210 km (b) 35 km (c) 70 km (d) 420 km

118. Find $\frac{(7x+4y)}{(x-2y)}$ if $\frac{x}{2y} = \frac{3}{2}$?

- (a) 11 (b) 18 (c) 25 (d) 5

119. If on an item a sale's man gives three successive discounts 25%, 15% and 10%. What is the equivalent discount of these discounts

- (a) 50% (b) 57% (c) 46% (d) 43 %

120. $40\% \text{ of } 220 \times ?\% \text{ of } 140 = 8131.2$

- (a) 65 (b) 66 (c) 67 (d) 68

121. If four-fifth of a number is greater than three-fourths of the number by 4, then the number is

- (a) 60 (b) 80 (c) 40 (d) 20

122. A number is increased by 12 % and the increased number is decreased by 14%, the net in Decrease (approximately) in number is

- (a) 4% (b) 2% (c) 3% (d) 1%

123. There are three numbers such that two numbers are respectively 15% and 20% more than a third number. The first number as a percent (approximately) of the second is

- (a) 95 (b) 96 (c) 97 (d) 94

124. An apple is priced at a cost of Rs. 17 per piece and melon at Rs. 25 per piece. Raju spends Rs 210 on these fruits. The equation which satisfies the given data is

- (a) $17x + 25y = 120$ (b) $17x + 25y = 210$
(c) $25x + 17y = 120$ (d) $25x + 17y = 210$

125. The time required for Rs. 3000 to yield Rs. 90 at 4% simple interest is

- (a) 8 months (b) 7 months (c) 9 months (d) 10 months.

126. A and B invested in a business in the ratio 2:3. They agree to give donation of 5% of the profit to schools. If A's share is Rs. 850, what was the profit

- (a) 2337 (b) 2437 (c) 2237 (d) 2137

127. A train has a length of 160 meters. It passed a man who is moving at 2 km/hr in the same direction of the train, in 4 seconds. Find the speed of the train.

- (a) 144 km/hr (b) 142 km/hr (c) 148 km/hr (d) 146 km/hr

✓ 128. Evaluate $\left(\frac{2}{3}\right)^2 \times \left(\frac{2}{5}\right)^{-3} \times \left(\frac{3}{5}\right)^2$.

(a) $\frac{5}{2}$

(b) $\frac{3}{2}$

(c) $\frac{2}{3}$

(d) $\frac{2}{5}$

129. A garrison has provision for 60 soldiers for 20 days. How long will that provision last for 24 soldiers?

(a) 30 days

(b) 40 days

(c) 50 days

(d) 45 days

130. The compound interest on Rs. 30,00 at 8 % per annum is Rs. 499.20. The period (in years) is

(a) 1

(b) 2

(c) 4

(d) 3

131. If 15 apples and 20 oranges cost as much as 20 apples and 15 oranges. How do you compare the cost of these two?

(a) Apples are as costly as oranges

(b) Oranges are costlier than apples

(c) Apples are costlier than oranges

(d) Nothing can be concluded from data.

132. The monthly income of 6 employees is Rs. 310. After one of them receives an increment, the average rises to Rs. 312.50. The amount of the increment is

(a) Rs. 15

(b) Rs. 17

(c) Rs. 12

✓ (d) None of them

133. If the length of a rectangle is halved and its breadth is four times of the original, what is the Percentage change in its area?

✓ (a) 50%

✓ (b) 100%

(c) No change

(d) None of these

134. If a point Q lies between P and R such that that $PQ = 2 QR$ then PQ is

✓ (a) $\frac{1}{3} PR$

(b) $\frac{1}{4} PR$

✓ (c) $\frac{2}{3} PR$

(d) none of these

135. Solid metallic cube of edge 22 cm melted and recast into solid sphere of radius 1 cm. Number of solid sphere are

(a) 2541

(b) 22

(c) 154

(d) 1452

136. A man has some hens and cows. If the number of heads be 48 and the number of feet equals 120. The number of hens will be

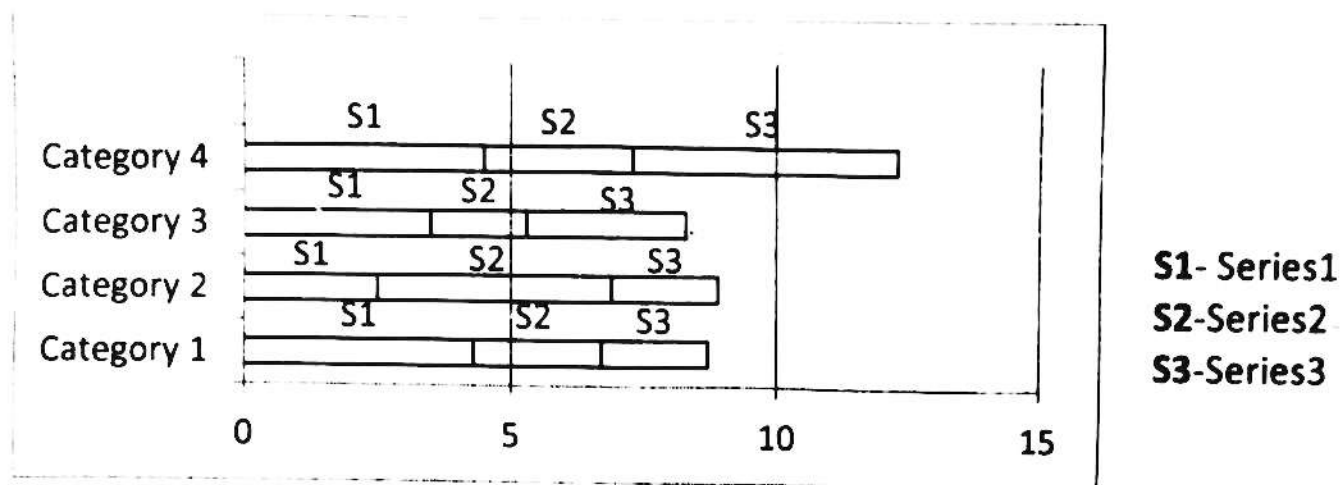
(a) 24

(b) 12

(c) 36

(d) 20

Study the graph below and answer the Questions 137 & 138



✓ 137 Which two categories have the closest area

✓ (a) Category 2 and category 1

(b) Category 3 and category 2

✓ (c) Category 3 and category 1

(d) Category 2 and category 4

✓ 138 Which two categories have the ratio of the area is 2:3

(a) Category 2 and category 1

(b) Category 3 and category 2

(c) Category 3 and category 1

✓ (d) Category 3 and category 4

139. A shopkeeper cheats to the extent of 10% while buying as well as selling, by using false weights. His total gain is:

(a) 10%

(b) 11%

(c) 20%

(d) 22%

✓ 140. Peter bought an item at 20% discount on its original price. He sold it with 40% increase on the price he bought it. The new sale price is by what percent more than the original price?

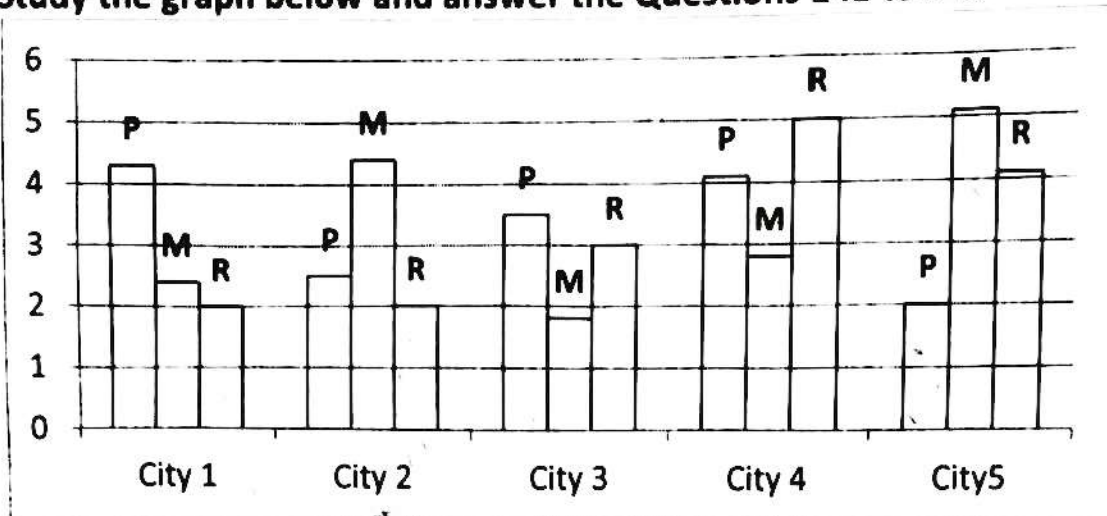
(a) 7.5

✓ (b) 12

(c) 10

(d) 8

Study the graph below and answer the Questions 141 to 143



P-Poor
M-Middle
R-Rich

141. In which cities poor and riches are equal

- (a) 1, 2, 3 (b) 1, 2, 4 (c) 2, 3, 4 (d) 1, 2, 4

142. In which cities poor's are equal

- (a) 1, 4 (b) 2, 5 (c) 1, 3 (d) 1, 5

143. Middle class in one city equals to sum of middle classes in cities

- (a) 2, 1, 3 (b) 5, 1, 2, (c) 5, 1, 4 (d) 4, 2, 3

144. An amount of Rs. 735 was distributed among A, B and C. If each one of them had received Rs. 25 less, their shares would have been in the ratio 1:3:2. The money received by C was:

- (a) Rs. 195 (b) Rs. 200 (c) Rs 225 (d) Rs. 245

145. 36 persons can repair a road in 10 days, working 5 hours a day. In how many days will 25 persons, repair same road working 6 hours a day.

- (a) 12 (b) 11 (c) 13 (d) 10

146. A large residential plot of area of 800 sq. m is divided into two parts. The difference of the areas of these two parts is one-fourth of the average of the two areas. What is the area of the smaller part

- (a) 450 sq m (b) 550 (c) 250 (d) 350

147. X and Y can do a piece of work in 20 days and 12 days respectively. X started the work alone and then after 4 days Y joined him till the completion of the work. How long did the work last?

- (a) 6 days (b) 10 days (c) 15 days (d) 20 days

148. A man is 32 years older than his son. In two years, his age will be twice the age of his son. What is the present age of man?

- (a) 64 years (b) 38 years (c) 62 years (d) 40 years

149. If a square and a rhombus have the same base, then what is the ratio of the areas of the square and rhombus?
(a) Greater than 1 (b) Less than 1 (c) Equal (d) None of these
150. A man invests a certain sum of money at 6% p.a. simple interest and another sum at 7% p.a. simple interest. His income from interest after 2 days was Rs. 354. One-fourth of the first sum is equal to one-fifth of the second sum. The total sum invested was:
(a) Rs. 2600 (b) Rs. 2700
(c) Rs. 2880 (d) Rs. 2900

Section-D

Language Comprehension

Based on the reading of the passage below answer questions 151 to 155 that follow:

Good writing should be governed by the rule that a man can think only one thing clearly at a time; and, therefore, that he should not be expected to think two or even more things in one and the same moment. But this is what is done when a writer breaks up his principle sentence into little pieces for the purpose of pushing into the gaps thus made two or three other thoughts by way of parenthesis, whereby unnecessarily confusing the reader. And here it is again it is again my own country men who are chiefly at fault. That German lends itself to this way of writing makes the thing possible, but does not justify it. No prose reads more easily or pleasantly than French, because as a rule, it is free from the error in question. The Frenchmen strings his thoughts together, as far as he can, in the most logical and natural order and so lays them before his reader one after the other for convenient deliberation, so that every one of them may receive undivided attention. The German, on the other hand, weaves them together into a sentence which he twists and crosses, and crosses and twists again; because he wants to say six things all at once, instead of advancing them one by one.

151. Good writing is governed by the rule that
a) Man can only think of one thing at all times.
b) Man cannot think of two or three things ever.
c) At one time only one thing can be thought of clearly.
d) Man cannot think of many things at the same time.
152. The reader can easily be confused when
a) The writer thinks of more than one thing at the time.
b) The writer puts more than one thought into the same sentence.
c) The writer breaks up his sentence into smaller sentence.
d) The writer leaves gaps in the sentence.

153. The word parenthesis as used in the sentence means
- a) A thesis written by the parent.
 - b) Thesis written to confuse the reader.
 - c) An additional idea written as an afterthought.
 - d) Anything written between two comas.
154. According to the writer of the passage Germans are not as good as French writers because
- a) They write in a natural and logical order.
 - b) They try to say too many things in the same sentence.
 - c) The French cannot twist and cross their thoughts.
 - d) They are good weavers only.
155. The passage is mainly trying to tell us that
- a) About the writing style of Germans
 - b) About the writing style.
 - c) About the writing style of the French.
 - d) About the writing style of Germans and Frenchmen.

In questions 156 to 160 replace the phrase/word in bold, so as to correct the sentence, with one of the options given below:

156. ✓ He went to the zoo and **had** spent an enjoyable day looking at the various creatures there.
- ☒ a) Have
 - ☐ b) Delete had
 - ☐ c) Had to
 - ☐ d) Was
157. ✓ It is nothing else **than** his stupidity which stands in the way of his progress.
- ☐ a) Then
 - ☒ b) For
 - ☒ c) But
 - ☐ d) Because
158. The myth that some races are naturally superior **than** others has now been fully demolished.
- ☐ a) Then
 - ☒ b) Against
 - ☒ c) To
 - ☐ d) With
159. Studying late at night is one of those things that **makes** me tired.
- ☒ a) Make
 - ☐ b) Made
 - ☐ c) Making
 - ☐ d) Had made
160. Over three hundred farmers marched through the capital **to protest** against the new tax.
- ☐ a) Protesting
 - ☒ b) In protest
 - ☐ c) Protested
 - ☒ d) Was protesting

In questions 161 to 170 fill in the blanks with the correct word from the given options:

161. This is a secret between you and _____.
 a) I ☒ b) Me
 c) She ☐ d) They
162. All the neighbours but _____ grow roses.
 a) Them ☒ b) They
 c) There ☐ d) Their
163. Have you called all the members except _____?
 a) I ☒ b) She
 c) Her ☐ d) They
164. Will our children grow up to be like _____?
 a) Us ☒ b) We
 c) They ☐ d) Him
165. Please buy a book for _____.
 a) She and I ☒ b) Her and me
 c) There and their ☐ d) He and she
166. The aim of the sales manager and his assistant _____ to increase sales.
 a) Are ☒ b) Were
 c) Is ☐ d) Do
167. Each of the workers must bring _____ own lunch.
 a) Them ☒ b) my
 c) His ☐ d) Our
168. The plate, as well as the glass, _____ on the table.
 a) Were ☒ b) Was
 c) There ☐ d) Put
169. You _____ a good letter.
 a) Writing ☒ b) Wrote
 c) Have wrote ☐ d) Have writing
170. Rita said she _____ of it yesterday.
 a) Thought ☒ b) Think
 c) Thinking ☐ d) Was think

In questions 171 to 175 re-arrange the sentences to form a meaningful paragraph:

171. In a fitting finale to his superb performance
 P: deservedly drove in an Opel Astra
 Q: in the Coca Cola Cup Cricket Tournament at Sharjah
 R: who lifted his nation upto the pinnacle of glory
 S: young Tendulkar
 a) SRPQ ☒ b) RSPQ
 c) SRQP ☐ d) RQSP

179. It is not easy to discipline _____ class of forty boys.
a) ~~An~~ b) The
c) ☒ A d) More.

In questions 180 to 184 select the word or phrase from the options given which is closest to the Opposite in meaning of the Bold word or phrase:

180. Media tended to focus more upon our occasional **discord** than on our spectacular achievements.
a) Tranquillity b) ~~Harmony~~
c) Failure d) Confusion
181. The clown was allowed to make **derogatory** remarks about the king.
a) Humorous b) Emotional
c) ☒ Complimentary d) Commendable
182. The novel is remarkable for its **graphic** description of the city's underworld.
a) ☒ Vague b) Prejudiced
c) Vivid d) Short
183. It was a **revolting** sight.
a) ☒ Comfortable b) ~~Pleasant~~
c) ☒ Delicious d) Remarkable
184. She had nothing but **scorn** for my ideas.
a) Admiration b) Encouragement
c) ☒ Appreciation d) Agreement

In questions 185-190 choose the word from the given options that is similar in meaning to the word given in CAPITAL letters.

185. UNJUSTIFIABLY MALICIOUS
a) Wanton b) Different
c) Barren d) Trite
186. TO EMIT
a) ~~Emanate~~ b) ☒ Infuse
c) Quibble d) Tirade
187. TO REPLACE
a) ~~Sheathe~~ b) Grieve
c) ☒ Supplant d) Mark
188. TO MAKE BETTER
a) ~~Advance~~ b) Rearrange
c) ☒ Eradicate d) Emascuate
189. ARGUMENTATIVE
a) Strident b) ~~Confrontational~~
c) Irreverent d) Vociferous

190. ✓ TO DISCOURAGE

- a) Indistinct
- b) Diminish
- c) Appreciate
- d) ✓ Daunt

In questions 191-195 fill in the blanks with the most appropriate word/set of words to complete the sentence:

191. ✓ On March 15, 2006, the Maywood Recreation Department requested a grant from the state to rebuild the community center that _____ in the recent fire.

- a) Destroys
- b) Will be destroyed
- c) ✓ Had been destroyed
- d) Is being destroyed

192. ✓ Mathew morris and jessica Glassman hosted a holiday party that the river bank cafe _____

- a) Caters
- b) Will cater
- c) Is catering
- d) ✓ Catered

193. ✓ While attempting to _____ his broken bicycle, Leo Donner realized that he didn't have the proper tools.

- a) Be repairing
- b) Have repaired
- c) ✓ Repair
- d) Repaired

194. ✓ _____ the police immediately.

- a) ✓ Call
- b) Called
- c) Been calling
- d) To call

195. ✓ There _____ four excellent restaurant in the center of town.

- a) Is
- b) ✓ Are
- c) Was
- d) Being

In question 196-200 choose the correct option and fill in the blanks:

196. ✓ I read a book _____ I was waiting.

- a) During
- b) ✓ While
- c) Despite
- d) Although

197. ✓ _____ she lost her way twice, she arrived safely.

- a) ✓ Although
- b) ✓ Despite
- c) While
- d) During

198. ✓ The Contestants _____ names were announced should prepare to start.

- a) ✓ Whose
- b) Whom
- c) Who
- d) Which

199. ✓ Last year they _____ six hundred dollars by selling chocolate bars.

- a) ✓ Raised
- b) Increased
- c) ✓ Hiked
- d) Paid

200. He was _____ of playing _____ and loose with the sentiments of his dearest friends.

- a) Complained, thick
- b) ✓ Accused, tight
- c) Innocent, false
- d) Guilty, fast