1. In a club, all the members participate either in Tambola or in Rummy. 320 participate in Rummy, 350 participate in Tambola and 220 participate in both. How many members does the club have?

(A) 410

(B) 440

(C) 550

(D) 450

2. Out of 230 students appearing in an examination, 162 failed in English, 152 failed in Hindi whereas 124 failed in both English and Hindi. The number of students who passed is

(A) 55

(B) 40

(C) 60

(D) 50

3. A man said to a lady, "Your mother's husband's sister is my aunt." How is the lady related to the man?

(A) Granddaughter

(B) Mother

(C) Sister

(D) Daughter

4. Arun said, "This girl is the wife of the grandson of my mother." Who is Arun to the girl?

(A) Father-in-law

(B) Grandfather

(C) Husband

(D) Father

5. P is the brother of Q and R. S is R's mother. T is P's father. Which one of the following statements *cannot* be definitely true?

(A) T is S's husband.

(B) Q is T's son.

(C) P is S's son.

(D) T is Q's father.

6. Six students A, B, C, D, E and F are sitting in a park. A and B are from Delhi while the rest are from Patna. D and F are tall while others are short. A, C and D are girls while others are boys. Who is the tall girl from Patna?

(A) C

(B) E

(C) F

(D) D

7. Six persons *M*, *N*, *O*, *P*, *Q* and *R* are sitting in two rows, three in each. *Q* is not at the end of any row. *P* is second to the left of *R*. *O* is the neighbour of *Q* and is sitting diagonally opposite to *P*. *N* is the neighbour of *R*. Who is facing *N*?

(A) *Q*
(B) *P*
(C) *M*
(D) *R*

8. In an office, the seniority of four officers is as follows :

1. Mahesh is senior to or equal to Nitin in rank.
2. Raman is junior to or equal to Shiv in rank.
3. Nitin is senior to Shiv in rank.

Based on the above facts, which one of the following conclusions can be drawn?

(A) Nitin is junior to Mahesh.
(B) Mahesh is senior to Raman.
(C) No such conclusion can be drawn.
(D) Shiv is senior to Raman.

9. In a row of girls, Shilpa is eighth from the left and Reena is seventeenth from the right. If they interchange their positions, Shilpa becomes fourteenth from the left. How many girls are there in the row?

(A) 28
(B) 29
(C) 30
(D) 27

10. A tourist drives 10 km towards East and then turns to his right and takes a drive of another 3 km. He then drives towards West, turning to his right, another 3 km. He then turns to the left and drives 2 km. Afterwards he turns to his right and travels 7 km. How far is he now from his starting point and in which direction?

(A) 9 km, North
(B) 8 km, West
(C) 5 km, South
(D) 10 km, East

11. A clock is so placed that at 12 noon, its minute hand points towards North-East. If this clock is turned through an angle of 135° in anticlockwise direction, in which direction will its minute hand point at 8:45 p.m.?

(A) West
(B) South
(C) North
(D) East

12. In a telephone directory, which one of the following names will appear in the middle?

Sajewat, Segvan, Sajevar, Sajewet, Sangwan

(A) Sangwan
(B) Segvan
(C) Sajevar
(D) Sajewet

13. If the English alphabets are written in reverse order, which letter will be twelfth to the left of the sixteenth letter from your left?

   (A) X

   (B) D

   (C) V

   (D) W

14. In a school of 500 students, 10% do not play Cricket, 20% do not play Football, 4% neither play Cricket nor Football. How many students play Football but do not play Cricket?

   (A) 50

   (B) 30

   (C) 40

   (D) 80

15. Find the possible values of x and y in the following series :
   3, 4, 5, 8, 7, 16, 9, 32, x, y

   (A) 10, 40

   (B) 22, 60

   (C) 11, 64

   (D) 11, 22

16. Find the missing number (?) in the following matrix of numbers :

15			14			13	
90	12		98	?		65	10

   (A) 11

   (B) 13

   (C) 15

   (D) 14

17. Find the missing number (?) in the following matrix :

1	7	9
2	14	?
3	105	117

   (A) 16

   (B) 12

   (C) 26

   (D) 20

18. The first third of a 75 km trip took twice as long as the rest of the trip. If the first third took h hours, then the average speed (in km/hour) for the whole trip was

   (A) 75/h

   (B) 25/(2h)

   (C) 225/(2h)

   (D) 50/h

19. If a, b, c, d, and e are five consecutive odd numbers, then their average is

(A) $5(a+b+c+d+e)$

(B) $(abcde)/5$

(C) $a+4$

(D) $5(a+4)$

20. The sum of income of A and B is more than that of C and D taken together. The sum of income of A and C is same as that of B and D taken together. If A earns half as much as the sum of income of B and D, whose income is the highest?

(A) B

(B) C

(C) D

(D) A

21. If $\dfrac{a}{b} > 50$, where a and b are distinct natural numbers less than 100, then how many pairs of a and b are possible?

(A) 50

(B) 49

(C) 48

(D) 51

22. The total age of 45 boys and 40 girls is 1540 years. The total age of 50 boys and 20 girls is 1320 years. Then the average age of the boys is

(A) 18 years

(B) 17 years

(C) 16 years

(D) 20 years

23. Four years ago, the ratio of ages of A and B was $13 : 9$ and eight years hence, the ratio will be $4 : 3$. The difference of their present ages is

(A) 40 years

(B) 16 years

(C) 24 years

(D) 56 years

24. A's age is $\dfrac{5}{4}$ of B's, and B's age is $\dfrac{4}{3}$ of C's, while M's age is equal to the sum of the ages of A, B and C. If C is 15 years old, then how old is M?

(A) 65 years

(B) 70 years

(C) 60 years

(D) 55 years

25. The selling price of a toy was 30% above the cost price. It was sold at 70% of the selling price. The loss was ₹ 54. What was the cost price of the toy?
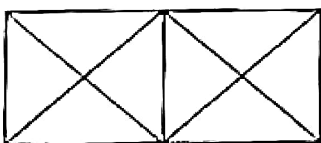
(A) ₹ 600

(B) ₹ 900

(C) ₹ 300

(D) ₹ 540

26. How many rectangles are there in the figure below?
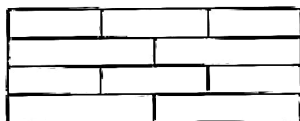
(A) 24

(B) 26

(C) 21

(D) 18

27. How many triangles are there in the figure given below?


(A) 16

(B) 18

(C) 20

(D) 8

28. Pigeon is related to Peace. In the same way, White Flag is related to

(A) Victory

(B) Enmity

(C) War

(D) Surrender

29. Reading is related to Knowledge. In the same way, Work is related to

(A) Engagement

(B) Employment

(C) Experiment

(D) Experience

30. In the figure given below, the circle represents young persons, the triangle represents uneducated persons and the rectangle represents employed persons :
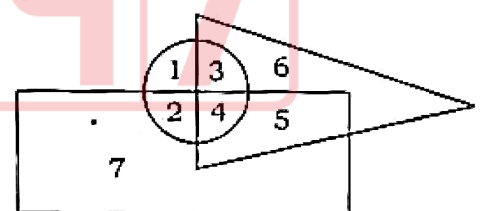
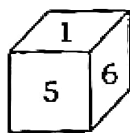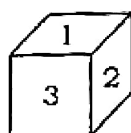Which region represents young, uneducated and unemployed persons?

(A) 2

(B) 6

(C) 3

(D) 1

31. The figure below shows the number of players who play Cricket, Football, Volleyball and Tennis :
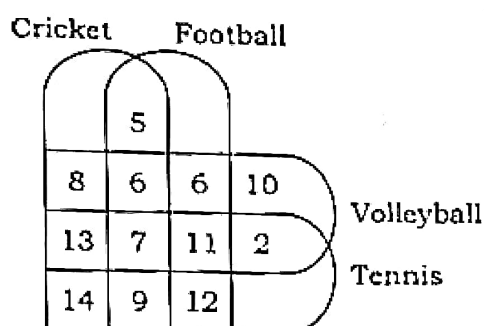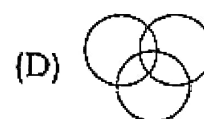

How many players play either Football and Cricket or Volleyball and Tennis?

(A) 99

(B) 53

(C) 60

(D) 67

32. Two positions of a dice are shown. When 4 is at the bottom, what number will be on the top?

(A) 2

(B) 5

(C) 6

(D) 1

33. Which is the most suitable Venn diagram among the following, which represents the interrelationship among antisocial elements, pickpockets and blackmailers?

(A)

(B)

(C)

(D)
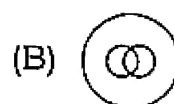
34. If 'Green' means 'Yellow', 'Yellow' means 'White', 'White' means 'Red', 'Red' means 'Violet' and 'Violet' means 'Black', then which of the following will be the colour of human blood?

(A) Violet

(B) Green

(C) Black

(D) Red

35. In a certain code, 'open the door' is written as 'ka te jo'; 'door is closed' is written as 'jo pa ma' and 'this is good' is written as 'la ra pa'. What is the code for 'closed'?

(A) ka

(B) jo

(C) ma

(D) pa

36. Below is given a set of three interrelated words :

Evaporation : Cloud : Rain

Choose that group from the given alternatives which bears the same relationship.

(A) Accident : Injury : Pain

(B) Tanning : Leather : Purse

(C) Bud : Flower : Fragrance

(D) Sneezing : Cough : Cold

37. A pair of words is given below :

Shoes : Cobbler

Choose that pair from the given alternatives which bears the same relationship.

(A) Education : Teacher

(B) Oxygen : Plant

(C) Food : Kitchen

(D) Spectacles : Optician

38. Which number will come in place of '?' in the following?

20 : 11 :: 102 : ?

(A) 52

(B) 61

(C) 98

(D) 49

39. Which is the odd one that does **not** belong to the group?

(A) Yellow

(B) Indigo

(C) Red

(D) Green

40. Choose the correct alternative to complete the following number series :

13, 32, 24, 43, 35, (....), 46, 65, 57, 76

(A) 52

(B) 54

(C) 55

(D) 45

41. Find out the wrong term in the following number series :

3, 4, 10, 32, 136, 685, 4116

(A) 136

(B) 10

(C) 32

(D) 4116

42. In a certain code language, 'MANIA' is written as 'NZOHZ' and 'PROUD' is written as 'QSNTE'. How will 'DONKEY' be written in that language?

(A) ENOLDZ

(B) CNONDZ

(C) ENPLDX

(D) EPOLFZ

43. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series :

Q_T_S_K_R_ _K_RS

(A) KRQTSQR

(B) KRTRSQT

(C) KRQTSQT

(D) KRQTSKT

44. Arrange the given words in a meaningful sequence :

1. Frog
2. Eagle
3. Grasshopper
4. Snake
5. Grass

(A) 5, 3, 1, 4, 2

(B) 3, 4, 2, 5, 1

(C) 1, 3, 5, 2, 4

(D) 5, 3, 4, 2, 1

45. If the numbers 15 and 21 are interchanged, then which of the following equations will be correctly balanced?

(A) $63 \div 15 + 21 \times 5 - 4 = 74$

(B) $26 + 21 \times 15 \div 3 - 14 = 108$

(C) $24 - 21 \div 3 + 15 - 7 = 23$

(D) $62 \div 31 - 21 + 15 \times 3 = 80$

46. Given $\dfrac{x}{x+1} + \dfrac{y}{y+1} + \dfrac{z}{z+1} = a$, then the value of $\dfrac{1}{x+1} + \dfrac{1}{y+1} + \dfrac{1}{z+1}$ is

(x, y, z are real numbers)

(A) $> a$

(B) $3 - a$

(C) $a + 2$

(D) a

47. In a group of 20 singers and 40 dancers, 20% of the singers are less than 25 years old and 40% of the entire group are under 25 years. What percentage of the dancers are under 25 years?

(A) 20%

(B) 40%

(C) 60%

(D) 50%

48. If a means '+', b means '–', c means '×' and d means '÷', then calculate the value of $6d7b8c8d2$.

(A) 12

(B) –19

(C) 49

(D) –17

49. Insert the proper mathematical signs between the figures in the following equation :

$$12\_4\_2\_1 = 24$$

(A) ×, ÷, ×

(B) +, ×, ÷

(C) +, ÷, ×

(D) –, ÷, ×

50. If $3 \times 4 = 5$, $5 \times 12 = 13$, then find the missing value (?) in the equation $9 \times ? = 41$.

(A) 30

(B) 45

(C) 40

(D) 35

51. "Prosperity bred sedition and revolt and poverty was the guarantee of stability and peace." Who said this?

   (A) Mohammed Hasan Nizami

   (B) Ibn Battuta

   (C) Ziauddin Barani

   (D) Amir Khusrau

52. Which organization was regarded as the 'seditious organization'?

   (A) Brahmo Samaj

   (B) Theosophical Society

   (C) Arya Samaj

   (D) All of the above

53. The Indian Constitution stresses on imparting education to be made free for children below

   (A) 18 years

   (B) 20 years

   (C) 14 years

   (D) 10 years

54. Who among the following is directly elected in India?

   (A) The Vice President of India

   (B) The Member of the Legislative Assembly

   (C) The Member of the Rajya Sabha

   (D) The President of India

55. In India, the amendment of the Constitution can be initiated by the

   (A) Parliament

   (B) States

   (C) President

   (D) People

56. Who opposed the participation of political parties in Panchayat elections?

   (A) Dr. B. R. Ambedkar

   (B) Dr. Rajendra Prasad

   (C) Jayaprakash Narayan

   (D) Vinoba Bhave

57. Who has the power to reorganize the States?

   (A) The Prime Minister of India

   (B) The Supreme Court of India

   (C) The Indian Parliament

   (D) The President of India

58. The Municipal Corporations are generally created for the administration of

   (A) medium cities

   (B) metropolitan cities

   (C) big towns

   (D) all the cities

59. The Panchayati Raj was first introduced in October 1959 in

(A) Tamil Nadu

(B) Rajasthan

(C) Karnataka

(D) Kerala

60. The Panchayati Raj was set up to provide real Swaraj to the people of

(A) towns

(B) rural areas

(C) districts

(D) metropolitan cities

61. "In spite of multiparty system, political scene in India was dominated for a long period by the 'Congress system'." Who said this?

(A) Irfan Habib

(B) D. C. Sircar

(C) Hemchandra Roychaudhuri

(D) Rajni Kothari

62. The Indian Constitution is

(A) 'a bag of borrowings'

(B) not a copy of other Constitutions

(C) a copy of American Constitution

(D) an original Constitution

63. Which Indian State occupied the leading position around 32·33% in mineral production in 1969–70?

(A) West Bengal

(B) Bihar

(C) Madhya Pradesh

(D) None of the above

64. J. N. Tata founded its Iron and Steel Company in Singhbhum between the two rivers

(A) Gogra and Ganga

(B) Gandak and Kosi

(C) Subarnarekha and Kharkai

(D) Gogra and Gandak

65. The Green Revolution was confined mainly to

(A) commercial crops

(B) food and commercial crops

(C) fruit and food crops

(D) food crops

66. The important sources of irrigation in India are

(A) canals

(B) wells

(C) tanks

(D) All of the above

67. Which country has so far really managed to adopt hybrid technology in the world?

(A) England

(B) Switzerland

(C) China

(D) France

68. On the basis of periodicity, volcanoes may be classified into

(A) active volcanoes

(B) dormant volcanoes

(C) extinct volcanoes

(D) All of the above

69. Widespread poverty is seen more in

(A) Latin America

(B) Africa

(C) New Zealand

(D) Asia

70. Godavari, Krishna and Kaveri rivers are in the

(A) Deccan regions of India

(B) North-Eastern regions of India

(C) Central and Deccan regions of India

(D) Northern regions of India

71. The best bree... Murrah which is found in

(A) Saurashtra region

(B) Mehsana region of Gujarat

(C) Pune region of Maharashtra

(D) Punjab and Haryana regions

72. What is the below poverty line (BPL) percentage in India as per the 2011 Census?

(A) 22%

(B) 42%

(C) 35%

(D) 32%

73. India's rank in world population comes after which country (before 2020)?

(A) America

(B) China

(C) Russia

(D) England

74. An era of economic planning in India began with the setting-up of the Planning Commission in

(A) 1950

(B) 1951

(C) 1952

(D) 1948

75. The Trade Union Movement took permanent footing in India

(A) in 1919

(B) after World War I

(C) after World War II

(D) in 1917

76. "The Indian nationalist leaders have characterized the nature of economic policies between 1880–1905 as the 'period of economic nationalism in India'." Who wrote it?

(A) Rajani Palme Dutt

(B) Dadabhai Naoroji

(C) R. C. Dutt

(D) Bipan Chandra

77. Railways were a veritable boon during the period of

(A) natural calamities

(B) peace

(C) World War II

(D) Mass Upsurge

78. Who wrote *Poverty and Un-British Rule in India*?

(A) Dadabhai Naoroji

(B) William Digby

(C) M. G. Ranade

(D) Surendranath Banerjee

79. Which State in India alone showed a higher proportion of 1084 females per 1000 males in 2011?

(A) Tamil Nadu

(B) Kerala

(C) Andhra Pradesh

(D) Karnataka

80. The direct impact of water-borne diseases is responsible for

(A) diarrheal diseases

(B) typhoid

(C) paratyphoid

(D) All of the above

81. Agrarian reforms were introduced in India to

(A) help the Zamindars

(B) help the peasantry

(C) exploit the available resources

(D) All of the above

82. Population census is taken in India once in

(A) eight years

(B) a decade

(C) two decades

(D) five years

83. Who was regarded as the 'Napoleon of India'?

(A) Samudragupta

(B) Chandragupta II

(C) Skandagupta

(D) Chandragupta Maurya

84. Who helped in the spread of material culture under the Mauryas?

(A) Administrators

(B) Traders

(C) Buddhist monks

(D) All of the above

85. The costs of construction and maintenance of canals during Feroz Shah Tughlaq were born by the

(A) Shiq

(B) officers

(C) cultivators

(D) State

86. Who wrote *Ain-i-Akbari*?

(A) Abul Fazl

(B) Minhaj-us-Siraj

(C) Nizamuddin Ahmad

(D) Abdul Qadir Badayuni

87. The 'Permanent Settlement' was implemented in

(A) 1792 AD

(B) 1793 AD

(C) 1794 AD

(D) 1791 AD

88. Who cheerfully interpreted the Congress Split in 1907 at Surat as 'a great triumph for us'?

(A) Lord Minto

(B) Sir Andrew Fraser

(C) Lord Curzon

(D) Lord Morley

89. Who propounded the 'drain theory'?

(A) Rajani Palme Dutt

(B) Dadabhai Naoroji

(C) Gopal Krishna Gokhale

(D) Surendranath Banerjee

90. Who was the greatest ruler of Vijayanagara?

(A) Bukka

(B) Deva Raya

(C) Krishnadeva Raya

(D) Harihara

91. Where was the United Nations 27th Climate Change Conference (COP 27) organized?

   (A) Germany

   (B) Australia

   (C) Egypt

   (D) Japan

92. Which Union Ministry presents Smart Solutions Challenge and Inclusive Cities Awards?

   (A) The Ministry of Home Affairs

   (B) The Ministry of Housing and Urban Affairs

   (C) The Ministry of Science and Technology

   (D) The Ministry of Rural Development

93. What is the name of the hydrogen that is produced from a carbon-free nuclear power?

   (A) Black hydrogen

   (B) Yellow hydrogen

   (C) White hydrogen

   (D) Pink hydrogen

94. Which State has passed bill to raise reservations in the State to 76%?

   (A) Chhattisgarh

   (B) Odisha

   (C) Haryana

   (D) Tamil Nadu

95. Chaitya Bhoomi is the restin place of which leader?

   (A) Sarojini Naidu

   (B) Sardar Vallabhbhai Patel

   (C) Dr. B. R. Ambedkar

   (D) Mahatma Gandhi

96. Which country signed an agreement with the European Union to collaborate on responsible advancements in artificial intelligence?

(A) Japan

(B) China

(C) New Zealand

(D) The United States of America

97. The Indian Institute of Democratic Leadership hosted India's first Model G-20 Summit in which State?

(A) Kerala

(B) Gujarat

(C) Maharashtra

(D) Punjab

98. Who has been appointed as the Secretary General of Federation of Indian Chambers of Commerce and Industry (FICCI) from 1st March, 2023?

(A) V. Ramachandra

(B) Suresh Dhawan

(C) Shailesh Pathak

(D) Arun Chawla

99. In the year 2022, total how many persons have been honoured with Padma Awards?

(A) 98

(B) 128

(C) 110

(D) 111

100. Which of the following countrie: has won the FIFA U-17 Women': World Cup, 2022?

(A) England

(B) Spain

(C) India

(D) Sri Lanka

101. In which of the following does light travel the fastest?

(A) Water

(B) Air

(C) Paper

(D) Oil

102. A material that has zero resistance is called

(A) conductor

(B) superconductor

(C) semiconductor

(D) insulator

103. Which one of the following is acidic?

(A) Lemon juice

(B) Tomato

(C) Milk

(D) All of the above

104. Which one of the following will turn blue litmus red?

(A) Limewater

(B) Baking soda solution

(C) Washing soda solution

(D) Vinegar

105. The pH of a solution of HCl is 4. This shows that the molarity of the solution is

(A) $4 \cdot 0 M$

(B) $0 \cdot 4 M$

(C) $0 \cdot 0001 M$

(D) None of the above

106. The chemical formula for caustic potash is

(A) $Ca(OH)_2$

(B) NH_4OH

(C) KOH

(D) $NaOH$

107. Chemically rust is

(A) hydrated ferrous oxide

(B) only ferric oxide

(C) hydrated ferric oxide

(D) None of the above

108. Both CO_2 and H_2 gases are

(A) colourless

(B) acidic in nature

(C) soluble in water

(D) heavier than air

109. The chemical formula of lead sulphate is

   (A) $Pb(SO_4)_2$

   (B) $PbSO_4$

   (C) $Pb_2(SO_4)_3$

   (D) Pb_2SO_4

110. Fatty foods become rancid due to the process of

   (A) corrosion

   (B) reduction

   (C) hydrogenation

   (D) oxidation

111. We store silver chloride in a dark-coloured bottle

   (A) because it is white solid

   (B) because it undergoes redox reaction

   (C) to avoid action by sunlight

   (D) None of the above

112. What is the chemical name of vitamin B_{12}?

   (A) Riboflavin

   (B) Cobalamin

   (C) Niacin

   (D) Thiamin

113. Which one of the following statements is correct about elephants?

   (A) An adult elephant can eat even more than 2 quintals of leaves and twigs in a day.

   (B) Elephants like to take too much rest because of their heavy bodies.

   (C) Elephants sleep for 8 hours to 10 hours a day.

   (D) A three-month-old baby elephant generally weighs about 2 quintals.

114. Which of the following is warm-blooded?

   (A) Crocodile

   (B) Toad

   (C) Fish

   (D) Pigeon

115. Which of the following is a good source of vitamin A?

   (A) Sugar

   (B) Banana

   (C) Coconut oil

   (D) Fish oil

116. Which of the following is the reason behind the rising of dough?

   (A) Emulsification of fat

   (B) Production of CO_2

   (C) Hydrogenation of oil

   (D) Multiplication of yeast

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117. Which one of the following pairs of natural sources and acids is correctly matched?
(A) Orange : Acetic acid
(B) Nettle sting : Lactic acid
(C) Tamarind : Methanoic acid
(D) Tomato : Oxalic acid

118. Milk turns into curd faster in summer because
(A) the growth of bacteria increases with the decrease in temperature
(B) the growth of bacteria decreases when the temperature remains normal
(C) the temperature has no effect on the growth of bacteria
(D) the growth of bacteria increases with the increase in temperature

119. Which of the following is *not* an endocrine gland?
(A) Pituitary
(B) Lacrimal
(C) Thyroid
(D) Adrenal

120. Restriction enzymes were discovered by
(A) Smith and Nathans
(B) Alexander Fleming
(C) Berg
(D) None of them

121. Gustatory receptors detect
(A) taste
(B) smell
(C) touch
(D) light

122. The brain is responsible for
(A) thinking
(B) regulating heartbeat
(C) balancing body
(D) All of the above

123. Which one of the following is a non-biodegradable substance?
(A) Manure
(B) Paper
(C) Cotton cloth
(D) DDT

124. A potted plant kept in a room tends to bend towards the direction of light. This movement is called
(A) photonastism
(B) photoperiodism
(C) phototropism
(D) photographism

125. Which one of the following is a plant hormone?

(A) Thyroxin

(B) Oestrogen

(C) Cytokinin

(D) Insulin

126. Groundwater will **not** be depleted due to

(A) thermal power plants

(B) loss of forest and decreased rainfall

(C) cropping of high water-demanding crops

(D) afforestation

127. Pungency in chillies is due to the presence of

(A) capsaicin

(B) carotene

(C) anthocyanin

(D) lycopene

128. Wildlife includes

(A) wild plants only

(B) wild plants and wild animals both

(C) all plants and animals

(D) wild animals only

129. Which is a genetically modified crop?

(A) Bt cotton

(B) Bt brinjal

(C) Golden rice

(D) All of the above

130. The first transgenic plant produced is

(A) tobacco

(B) rice

(C) cotton

(D) brinjal

131. Air pollution effects are usually found on

(A) leaves

(B) stems

(C) roots

(D) flowers

132. A common example of stem tuber is

(A) garlic

(B) onion

(C) potato

(D) ginger

133. In the following, which one is used in thermal power plants?

(A) Thorium

(B) Air

(C) Fossil fuel

(D) Uranium

134. The power generated in windmill

(A) depends on wind velocity

(B) does not depend on wind velocity

(C) depends on the trees surrounding it

(D) depends on the lower height

135. The electrical current is measured using

(A) ammeter

(B) voltmeter

(C) potentiometer .

(D) galvanometer

136. Tungsten is used in which of the following?

(A) Electric bulb

(B) Insulator

(C) Textile manufacturing

(D) Metal extraction

137. Magnetic field lines emerge from

(A) south pole

(B) north pole

(C) centre of the magnet

(D) None of the above

138. Scattering of light can be seen in

(A) blue colour of the sky

(B) reddening of the sun at sunrise

(C) reddening of the sun at sunset

(D) All of the above

139. The change in focal length of the human eye is caused due to

(A) iris

(B) ciliary muscles

(C) pupil

(D) cornea

140. In the rear-view mirror of the vehicles, what will be the magnification?

(A) Greater than 1

(B) Less than 1

(C) No magnification is seen

(D) 1

141. $37\frac{1}{2}\%$ of the candidates in an examination were girls. 75% of the boys and $62\frac{1}{2}\%$ of the girls passed and 342 girls failed. The number of boys failed was

(A) 360

(B) 370

(C) 380

(D) 350

142. The average monthly income of P and Q is ₹ 5,050. The average monthly income of Q and R is ₹ 6,250 and the average monthly income of P and R is ₹ 5,200. The monthly income of P is

(A) ₹ 4,000

(B) ₹ 4,050

(C) ₹ 5,000

(D) ₹ 3,500

143. If the sum of two numbers is 25 and their difference is $7\frac{1}{2}$, then the ratio of the numbers is

(A) 7 : 13

(B) 13 : 7

(C) 13 : 6

(D) 6 : 13

144. If $A:B = \frac{1}{2}:\frac{3}{8}$, $B:C = \frac{1}{3}:\frac{5}{9}$ and $C:D = \frac{5}{6}:\frac{3}{4}$, then the ratio $A:B:C:D$ is

(A) 6 : 4 : 8 : 10

(B) 6 : 8 : 9 : 10

(C) 8 : 6 : 10 : 9

(D) 4 : 6 : 8 : 10

145. The ratio of the cost price and the selling price is 4 : 5. The profit percent is

(A) 20%

(B) 25%

(C) 30%

(D) 10%

146. The difference between the compound interest and simple interest on an amount of ₹ 15,000 for 2 years is ₹ 96. The rate of interest per annum is

(A) 8·5%

(B) 9%

(C) 9·5%

(D) 8%

147. There is 60% increase in an amount in 6 years at simple interest. The compound interest of ₹ 12,000 after 3 years at the same rate will be

(A) ₹ 3,120

(B) ₹ 3,972

(C) ₹ 6,240

(D) ₹ 2,160

148. If the sum and difference of two numbers are 20 and 8 respectively, then the difference of their squares is

(A) 28

(B) 160

(C) 180

(D) 12

149. The numerator and denominator of a fraction are in the ratio of 2 : 3. If 6 is subtracted from the numerator, the result is a fraction that has a value $\frac{2}{3}$ of the original fraction. The numerator of the original fraction is

(A) 18

(B) 27

(C) 36

(D) 6

150. The value of
$0·008 \times 0·01 \times 0·0072 \div (0·12 \times 0·0004)$
is

(A) 0·12

(B) 1·02

(C) 1·2

(D) 0·012