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PART I : GENERAL INTELLIGENCE

Directions : *In questions no. 1 to 9, select the related word/letters/number from the given alternatives.*

1. ABCXYZ : DEFUVW : : GHIRST : ?

(A) JKLOPQ (B) JOKPLN
(C) JNOPKL (D) MNOLKJ

2. ACE : BDF : : MOQ : ?

(A) MZU (B) MVT
(C) NPR (D) NZV

3. 8 : 23 : : 48 : ?

(A) 168 (B) 112
(C) 90 (D) 138

4. 5 : 28 : : 8 : ?

(A) 25 (B) 67
(C) 40 (D) 64

5. CAT : 3120 : : MAT : ?

(A) 13120 (B) 12120
(C) 1312 (D) 10120

6. Doctor : Hospital : : Teacher : ?

(A) School (B) Industry
(C) Field (D) Laboratory

7. 1st Prime Minister of India :
Pt. Jawaharlal Nehru : :
1st President of India : ?

(A) Dr. Zakir Hussain
(B) Dr. A.P.J. Abdul Kalam
(C) Dr. S. Radhakrishnan
(D) Dr. Rajendra Prasad

8. International Literacy Day : September 8 : :
International Women's Day : ?

(A) April 22 (B) November 4
(C) March 8 (D) June 26

9. ZX : AC : : VT : ?

(A) AB (B) AE
(C) EG (D) DF

Directions : *In questions no. 10 to 17, find the odd word/letters/number from the given alternatives.*

10. (A) 2, 3 (B) 20, 21
(C) 9, 10 (D) 24, 25

11. (A) 56 (B) 98
(C) 83 (D) 64

12. (A) Pond (B) River
(C) Ocean (D) Waterfall

13. (A) Europe (B) Africa
(C) Asia (D) Canada

14. (A) Flute (B) Piano
(C) Violin (D) Sitar

15. (A) Litre (B) Yard
(C) Metre (D) Inch

16. (A) QRS (B) XYZ
(C) STU (D) MLN

17. (A) 3, 2, 4, 8 (B) 4, 2, 3, 9
(C) 1, 2, 4, 7 (D) 2, 3, 4, 9

18. Arrange the following in ascending order :

1. Centimetre 2. Kilometre
3. Decimetre 4. Metre

(A) 3, 1, 2, 4 (B) 4, 2, 1, 3
(C) 1, 3, 4, 2 (D) 2, 4, 3, 1

19. Which one of the given responses would be a meaningful order of the following ?

1. House 2. Palace
3. Bungalow 4. Hut

(A) 3, 2, 1, 4 (B) 4, 1, 3, 2
(C) 1, 2, 3, 4 (D) 2, 3, 1, 4

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Directions : *In questions no. 20 and 21, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?*

20. a_ba_b_b_a_b

(A) bbabb (B) abbab

(C) abaab (D) aabba

21. m_m_am_a_

(A) amaa (B) mama

(C) amam (D) ammm

Directions : *In questions no. 22 to 27, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

22. 1, 6, 13, 22, 33, ?

(A) 46 (B) 44

(C) 47 (D) 43

23. ICE, JDF, KEG, LFH, ?

(A) MGI (B) HHI

(C) MIG (D) MHG

24. EFGH, MNOP, QRST, ?

(A) UVWX

(B) JIKH

(C) QRTS

(D) VLMN

25. BY, GT, LO, ?, VE

(A) QK (B) QP

(C) PJ (D) QJ

26. 1, 8, 17, 30, ?, 76

(A) 59 (B) 69

(C) 39 (D) 49

27. 12, 8, 14, 6, 16, ?

(A) 5 (B) 4

(C) 18 (D) 32

28. In a code language 'FORGE' is written a 'FPTJI'; how should 'CULPRIT' be written i the same code ?

(A) CVMQSTU

(B) CXOSULW

(C) CVNSVNZ

(D) CSJNPGR

29. Ann is 300 days older than Varun an Sandeep is 50 weeks older than Ann. I Sandeep was born on Tuesday, on which da was Varun born ?

(A) Tuesday

(B) Friday

(C) Monday

(D) Thursday

30. Hema was twice as old as Geeta 10 years ag How old is Geeta today, if Hema will b 40 years old 10 years henceforth ?

(A) 15 years

(B) 35 years

(C) 25 years

(D) 20 years

31. From the given alternatives, select the word which can be formed using the letters of the given word.

IMMEASURABLE

(A) MEAT

(B) BIBLE

(C) BAILABLE

(D) BLUE

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32. If $2 \times 16 = 8$; $8 \times 8 = 1$; $6 \times 12 = 12$, then $12 \times 144 = ?$

(A) 16 (B) 24

(C) 11 (D) 12

33. Some equations are solved on the basis of a certain system. Using the same, solve the unsolved equation.

If $10 - 3 = 12$, $12 - 4 = 13$, $14 - 5 = 14$, then $16 - 6 = ?$

(A) 16 (B) 18

(C) 10 (D) 15

34. The question given below is based upon the following set of codes :

Digit	:	1	3	5	4	6	0	8	7	2
Code	:	A	O	Z	L	D	T	N	H	Q

Find the code for 21500.

(A) SLOPH (B) QAZTT

(C) SLPHO (D) SHLPO

Directions : *In questions no. 35 to 37, select the missing number from the given responses.*

35.

13	9	24
11	?	6
16	20	10

(A) 19 (B) 16

(C) 11 (D) 20

36.

2	4	3	1	5	4
256	16	1	81	256	?

(A) 625 (B) 1225

(C) 125 (D) 25

37.

1	3	7
2	4	4
4	5	9
3	2	3
50	70	?

(A) 118 (B) 220

(C) 23 (D) 115

38. Seeta and Geeta started walking from point A. Seeta walks 6 km towards North and then takes a right turn and walks 3 km. She then takes a right turn towards South and walks for 6 km. She again takes a left turn and walks 3 km, and reaches a point B. Geeta walks for 3 km towards West and takes a left turn and walks for 6 km; she takes a left turn and walks 9 km, and she reaches at a point C. How far is the point B from point C ?

(A) 9 km

(B) 6 km

(C) 3 km

(D) 4 km

39. Mr. Das started his journey from his house straight to his friend's house at a distance of 12 km. On returning he walked 8 km in the same route and turned right and walked 4 km, then he turned to his left and walked 4 km. Finally he turned to his left and walked 2 km. How far was he from his house ?

(A) 6 km

(B) 2 km

(C) 8 km

(D) 4 km

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40. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then how is A related to D ?

(A) Daughter (B) Granddaughter

(C) Grandmother (D) Grandfather

41. Which conclusion is true with respect to the given statements ?

Statements :

Anand is an artist.

Artists are beautiful.

Conclusions :

(A) Anand is not beautiful.

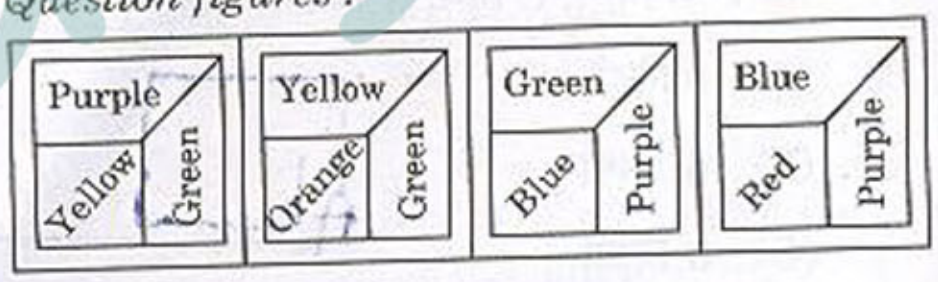
(B) Beautiful persons are not artists.

(C) All beautiful persons are artists.

(D) Anand is beautiful.

42. Which colour is opposite to purple ?

Question figures :

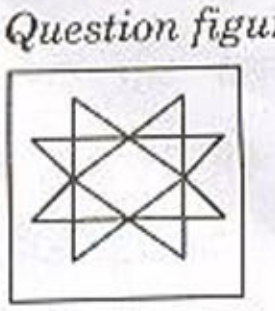


(A) Red (B) Green

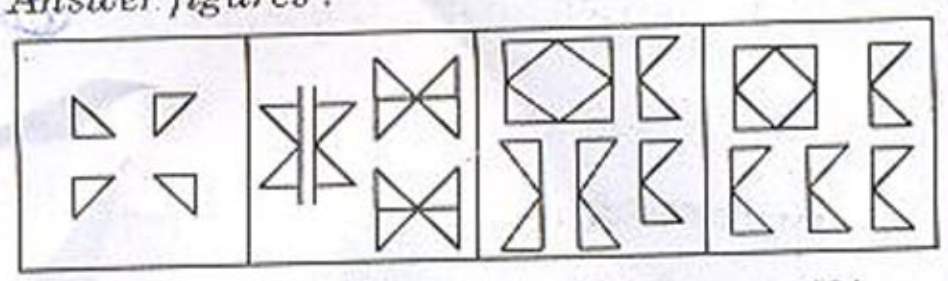
(C) Blue (D) Orange

43. Select the appropriate answer figure from which the question figure is formed.

Question figure :



Answer figures :



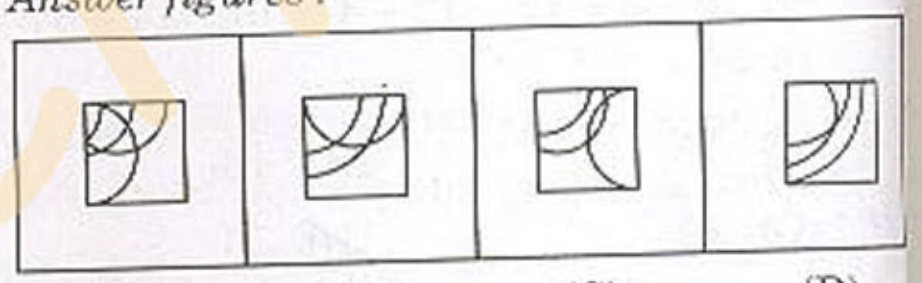
(A) (B) (C) (D)

44. Which answer figure will complete the pattern in the question figure ?

Question figure :



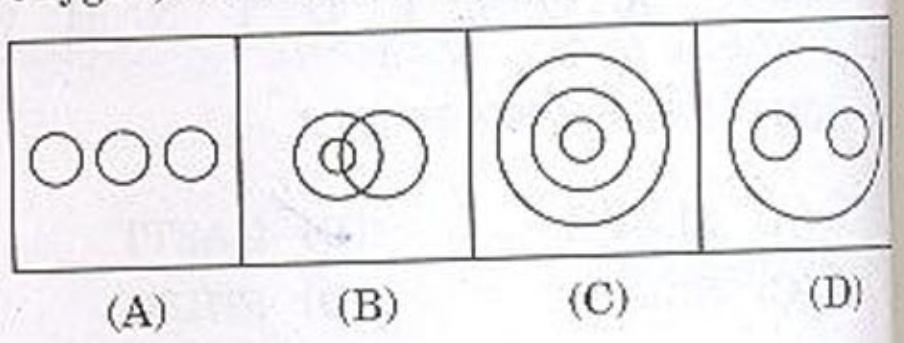
Answer figures :



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

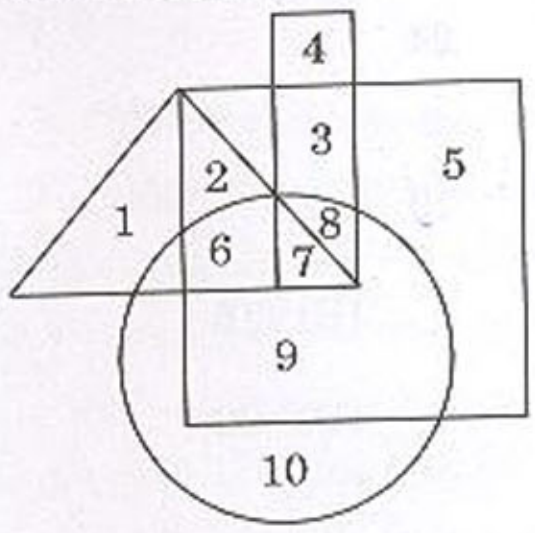
45. Identify the diagram that best represents the relationship among the classes given below.

Oxygen, Carbon dioxide and Atmosphere



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

46. Which statement is true with respect to the Venn diagram ?



(A) 1, 9 and 10 are in all the figures.

(B) 1, 2 and 6 are in the triangle.

(C) 6, 7 and 8 are in all the figures.

(D) 1, 5 and 9 are in all the figures.

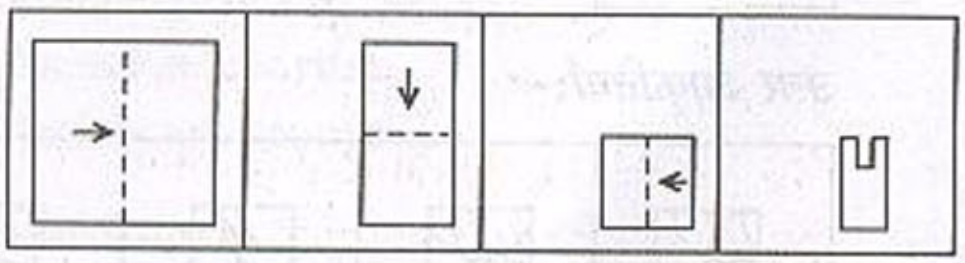
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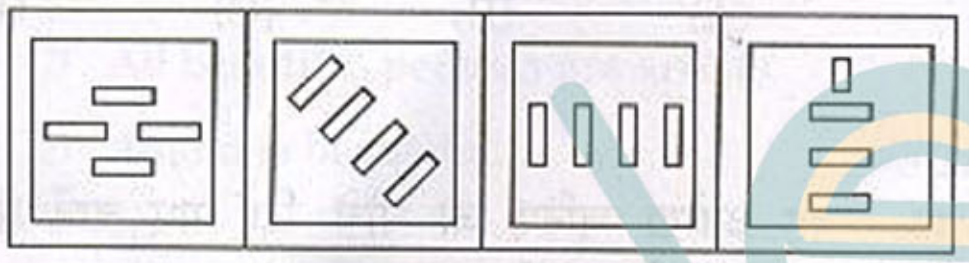
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47. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened :

Question figures :



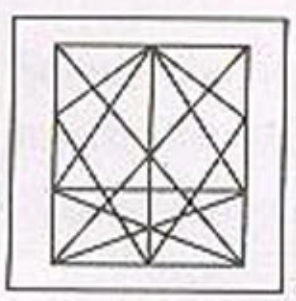
Answer figures :



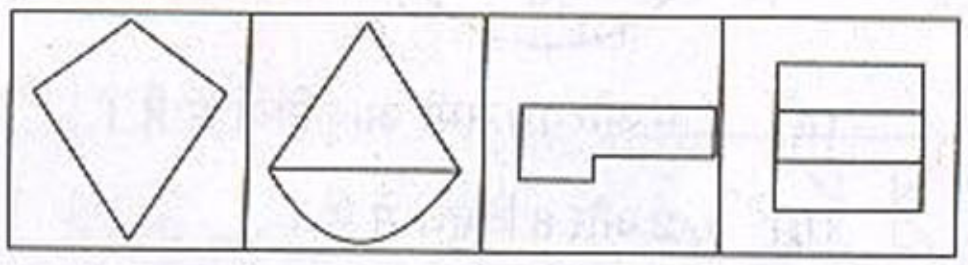
(A) (B) (C) (D)

48. Which of the answer figures is embedded in the question figure ?

Question figure :



Answer figures :



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

49. A word is represented by only one set o numbers as given in any one of th alternatives. The sets of numbers given in th alternatives are represented by two classes o alphabets as in the two matrices given below The columns and rows of Matrix I an numbered from 1 to 5 and that of Matrix I are numbered from 6 to 10. A letter fro these matrices can be represented *first by it row* and *next by its column*, e.g., 'A' can b represented by 11, 23, etc., and 'G' can b represented by 67, 78, etc. Similarly, yo have to identify the set for the word give below :

BEE

Matrix I

	1	2	3	4	5
1	A	B	C	D	E
2	E	D	A	B	C
3	B	C	D	E	A
4	D	A	E	C	D
5	C	E	B	A	B

Matrix II

	6	7	8	9	10
6	F	G	H	I	J
7	J	I	G	H	F
8	F	H	I	J	G
9	G	J	F	G	I
10	H	E	J	F	E

(A) 12, 15, 33

(B) 21, 12, 22

(C) 12, 15, 41

(D) 12, 21, 15

50. Identify the alternative which resembles th mirror-image of the given word.

DL9Q3574

(A) ⊀Γ5ƐOϑLD

(B) ⊀Γƨ3OϑJD

(C) ⊀Γƨ3Q9JD

(D) ⊀Γƨ3OϑLD

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FOR VISUALLY HANDICAPPED / CEREBRAL PALSY CANDIDATES ONLY

Directions : *In questions no. 42 to 45, select the related word from the given alternatives.*

42. ? : Hen : : Cub : ?

(A) Chicken, Lion

(B) Chicken, Den

(C) Eggs, Cat

(D) Meat, Lion

43. Earth : Planet : : Milky-Way : ?

(A) Moon

(B) Sun

(C) Satellite

(D) Galaxy

44. Homicide : Human : : Fratricide : ?

(A) Friend

(B) Brother

(C) Father

(D) Farmer

45. Cricket : Stadium : : Gambling : ?

(A) Casino

(B) Club

(C) Bar

(D) Gym

Directions : *In questions no. 46 and 47, find the odd number from the given alternatives.*

46. (A) 9175

(B) 3781

(C) 7359

(D) 1593

47. (A) 457

(B) 678

(C) 235

(D) 343

48. Insert the arithmetical signs in the following numerical figures :

5, 3, 8, 6 = 138

(A) × × +

(B) + + ×

(C) × − +

(D) × + ×

49. Which of the following is a leap year ?

(A) 1800

(B) 2000

(C) 1400

(D) 1700

50. If the figures are arranged in a sequence which figure will be in the middle ?

Figures : Triangle, Hexagon, Quadrilateral, Angle, Pentagon

(A) Triangle

(B) Pentagon

(C) Quadrilateral

(D) Angle

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PART II : ENGLISH LANGUAGE

Directions : *In questions no. 51 to 55, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval (●) corresponding to the appropriate letter (A, B, C). If a sentence is free from errors, blacken the oval corresponding to (D) in the Answer Sheet.*

51. The crime rate increases inspite / formal moral education / given in schools. / No error
(A) (B) (C) (D)

52. As soon as they / entered the temple / they prayed to the gods on bent knees. / No error.
(A) (B) (C) (D)

53. Three-fourths of the men / has gone / to war. / No error
(A) (B) (C) (D)

54. The conversation / we are having is completely / out of the main topic. / No error
(A) (B) (C) (D)

55. A five-men / enquiry committee was appointed / to look into the matter. / No error.
(A) (B) (C) (D)

Directions : *In questions no. 56 to 60, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate oval (●) in the Answer Sheet.*

56. If left unattended, even a small cut can turn into a _____ .
(A) sore
(B) ore
(C) soar
(D) sour

57. My neighbour is very _____ for he believes that nothing good will happen to him.
(A) pessimistic
(B) optimistic
(C) reasonable
(D) forward-looking

58. She was aware of what was going _____ her father's mind.
(A) in
(B) by
(C) through
(D) on

59. Most parents _____ love and affection on their children.
(A) poor
(B) pool
(C) pour
(D) pore

60. Then railway trains _____ the mos popular and the cheapest means of transport.
(A) becomes
(B) becoming
(C) become
(D) became

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Directions : *In questions no. 61 to 65, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.*

61. Spurious

(A) Particular

(B) Fake

(C) Fictional

(D) True

62. Latent

(A) Obstruct

(B) Confuse

(C) Hidden

(D) Expose

63. Dwindle

(A) Increase

(B) Decrease

(C) Flourish

(D) Grow

64. Ameliorate

(A) To humiliate

(B) To make excuse

(C) To appease

(D) To improve

65. Ossify

(A) Turn into plasma

(B) Turn into iron

(C) Make or become like a stone

(D) Make or become like a bone

Directions : *In questions no. 66 to 70, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.*

66. Discrimination

(A) Motivation

(B) Replenishment

(C) Bias

(D) Equality

67. Endangered

(A) Abundant

(B) Blissful

(C) Protected

(D) Livening up

68. Maverick

(A) Redundant

(B) Old

(C) Dependable

(D) Conventional

69. Release

(A) Close

(B) Confine

(C) Hide

(D) Bury

70. Clear

(A) Nebulous/opaque

(B) Lucid

(C) Implicit

(D) Effulgent

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Directions *: In questions no. 71 to 75, four alternatives are given for the Idiom/Phrase underlined in the sentence. Choose the alternative, which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.*

71. Despite the doctor's advice he still eats like a horse.

(A) does not like to eat
(B) swallows his food
(C) eats slowly
(D) eats a lot of food

72. The two friends are now at daggers drawn over a petty issue.

(A) enemies
(B) competitors
(C) angry
(D) frustrated

73. His work seems to be a Penelope's web.

(A) declining
(B) in his best form
(C) endless
(D) difficult

74. Goods will be delivered if you pay on the nail.

(A) pay promptly in cash
(B) pay promptly
(C) pay within the given time
(D) pay the full amount

75. If people do not mend their ways, they are sure to go to the dogs.

(A) to be united
(B) to be rough
(C) to fight
(D) to be ruined

Directions *: In questions no. 76 to 80, a part of the sentence is underlined. Below are given alternatives to the underlined part at (A), (B), (C), which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (D). Mark your answer in the Answer Sheet.*

76. Walk carefully lest you do not fall.

(A) lest you fall
(B) lest you should not fall
(C) lest you might not fall
(D) No improvement

77. Please tell the story in a nutshell.

(A) in the nutshell
(B) in nutshells
(C) in nutshell
(D) No improvement

78. The housing problem in Mumbai becomes more serious.

(A) has become
(B) become
(C) is becoming
(D) No improvement

79. If he would have tried he would have succeeded.

(A) is tried
(B) was tried
(C) had tried
(D) No improvement

80. The girl filled the pitcher for water.

(A) of
(B) with
(C) in
(D) No improvement

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Directions : *In questions no. 81 to 85, out of the four alternatives, choose the one which can be substituted for the given words/sentence.*

81. The schedule of travel

(A) Travelbook (B) Guidebook

(C) Itinerary (D) Time-table

82. Poem in short stanzas narrating a popular story

(A) Ballad (B) Sonnet

(C) Ballet (D) Epic

83. Design made by putting together coloured pieces of glass or stones

(A) Relief (B) Oleograph

(C) Tracery (D) Mosaic

84. A policy that segregates people on the basis of race

(A) Apartheid (B) Partisan

(C) Chauvinism (D) Theism

85. Something which lasts forever

(A) Mortal (B) Infallible

(C) Eternal (D) Youthful

Directions : *In questions no. 86 and 90, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.*

86. (A) Machiavelian (B) Machaivelian

(C) Machiavilian (D) Machiavellian

87. (A) veretinary (B) veratinary

(C) vetarinary (D) veterinary

88. (A) ekcessive (B) exsessive

(C) excesive (D) excessive

89. (A) retrieve (B) exasperrate

(C) coreograph (D) erradicate

90. (A) acommodate (B) accommodat

(C) accomodate (D) accommodate

Directions : *In questions no. 91 to 100, in the following passage, some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks.*

Superstition is a __91__ in __92__, which __93__ be explained by the __94__ of nature and also not by religion. For __95__ a superstitious person believes that a black cat __96__ his path will bring him __97__. In Brazil, for instance, many people believe that a person can be harmed or even killed by __98__ needles in a puppet which __99__ the person to be harmed. This is called 'voodoo-magic'. People who do not believe in __100__ things consider them superstition.

91. (A) believer (B) believes

(C) belief (D) believe

92. (A) nothing (B) everything

(C) anything (D) something

93. (A) can (B) cannot

(C) will (D) will not

94. (A) laws (B) means

(C) methods (D) ways

95. (A) instance (B) insistence

(C) instant (D) insistent

96. (A) crosses (B) crossed

(C) crossing (D) cross

97. (A) luck (B) properties

(C) fortune (D) misfortune

98. (A) sticking (B) pulling

(C) pushing (D) drawing

99. (A) points (B) pointing

(C) represents (D) represent

100. (A) this (B) just

(C) such (D) thus

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PART III : QUANTITATIVE APTITUDE

101. The difference between the circumference and diameter of a circle is 150 m. The radius of that circle is (Take $\pi = \frac{22}{7}$)

(A) 30 m (B) 40 m

(C) 25 m (D) 35 m

102. If the radius of a sphere be doubled, then the percentage of increase in volume is

(A) 600% (B) 800%

(C) 500% (D) 700%

103. A merchant offers 8% discount on all his goods and still makes a profit of 15%. If an item is marked ₹ 250, then its cost price is

(A) ₹ 230 (B) ₹ 187

(C) ₹ 180 (D) ₹ 200

104. If in a sale, the discount given on a saree is equal to one-fourth the marked price and the loss due to this discount is 15%, then the ratio of the cost price to the selling price is

(A) 10 : 17 (B) 20 : 17

(C) 3 : 4 (D) 4 : 3

105. Two numbers are in the ratio of 2 : 3. If their sum is 125, find the numbers.

(A) 20, 30 (B) 32, 78

(C) 50, 75 (D) 24, 36

106. A box contains 280 coins of one-rupee, 50-paise and 25-paise. The values of each kind of the coins are in the ratio of 8 : 4 : 3. Then the number of 50-paise coins is

(A) 80 (B) 90

(C) 70 (D) 60

107. The average age of P, Q and R is 5 years more than R's age. If the total ages of P and Q together is 39 years, then R's age is

(A) 16 years (B) 14 years

(C) 12 years (D) 24 years

108. The least value of n, such that $(1 + 3 + 3^2 + ... + 3^n)$ exceeds 2000, is

(A) 7 (B) 8

(C) 5 (D) 6

109. The simplified value of $(0{\cdot}2)^3 \times 200 \div 2000$ of $(0{\cdot}2)^2$ is

(A) $\frac{1}{10}$ (B) 1

(C) $\frac{1}{100}$ (D) $\frac{1}{50}$

110. The odd one out from the sequence numbers 19, 23, 29, 37, 43, 46, 47 is

(A) 37 (B) 19

(C) 23 (D) 46

111. The next number of the sequence

$\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, \cdots$

is

(A) $\frac{9}{24}$ (B) $\frac{9}{32}$

(C) $\frac{10}{24}$ (D) $\frac{11}{32}$

112. The least number by which 20184 must b multiplied so as to make the product a perfe square is

(A) 5 (B) 6

(C) 2 (D) 3

113. One man or two women or three boys ca do a piece of work in 88 days. One ma one woman and one boy will do it in

(A) 48 days (B) 20 days

(C) 44 days (D) 24 days

114. Two pipes A and B can separately fill a tan in 2 hours and 3 hours respectively. If bot the pipes are opened simultaneously in th empty tank, then the tank will be filled in

(A) 1 hour 15 minutes

(B) 1 hour 20 minutes

(C) 1 hour 12 minutes

(D) 2 hours 30 minutes

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115. The perimeter of a triangle is 54 m and its sides are in the ratio of 5 : 6 : 7. The area of the triangle is

(A) $27\sqrt{2}$ m^2 (B) 25 m^2

(C) 18 m^2 (D) $54\sqrt{6}$ m^2

116. The lengths of two parallel sides of a trapezium are 6 cm and 8 cm. If the height of the trapezium be 4 cm, then its area is

(A) 30 sq. cm (B) 30 cm

(C) 28 cm (D) 28 sq. cm

117. If the ratio of an external angle and an internal angle of a regular polygon is 1 : 17, then the number of sides of the regular polygon is

(A) 36 (B) 12

(C) 20 (D) 18

118. A bicycle wheel has a diameter (including the tyre) of 56 cm. The number of times the wheel will rotate to cover a distance of 2·2 km is (Assume $\pi = \frac{22}{7}$)

(A) 1875 (B) 2500

(C) 625 (D) 1250

119. A tree of height 'h' metres is broken by a storm in such a way that its top touches the ground at a distance of 'x' metres from its root. Find the height at which the tree is broken. (Here h > x)

(A) $\frac{h^2 + x^2}{4h}$ metres

(B) $\frac{h^2 - x^2}{4h}$ metres

(C) $\frac{h^2 + x^2}{2h}$ metres

(D) $\frac{h^2 - x^2}{2h}$ metres

120. If $x^2 + ax + b$ is a perfect square, then which one of the following relations between a and b is true ?

(A) $b^2 = 4a$ (B) $b^2 = a$

(C) $a^2 = b$ (D) $a^2 = 4b$

121. The average of two numbers is 8 and that of another three numbers is 3. The average of those five numbers is

(A) 6 (B) 5

(C) 7 (D) 5·5

122. A merchant loses 10% by selling an article. If the cost price of the article is ₹ 15, then the selling price of the article is

(A) ₹ 12·30 (B) ₹ 13·50

(C) ₹ 13·20 (D) ₹ 16·50

123. Yogita sold a plasma TV at 20% gain to Shyamla. Shyamla sold it to Deepa at 10% profit. If Deepa had to pay ₹ 33,000 for the plasma TV, find the cost price of the plasma TV for Yogita.

(A) ₹ 35,000 (B) ₹ 40,000

(C) ₹ 30,000 (D) ₹ 25,000

124. If 8% of x = 4% of y, then 20% of x is

(A) 40% of y (B) 80% of y

(C) 10% of y (D) 16% of y

125. At an election there were two candidates. One candidate got 38% vote and lost by 720 number of votes. The total number of valid votes were

(A) 16200 (B) 30000

(C) 13000 (D) 13800

126. A car travels at a speed of 60 km/hr and covers a particular distance in one hour. How long will it take for another car to cover the same distance at 40 km/hr ?

(A) $\frac{3}{2}$ hours (B) 1 hour

(C) $\frac{5}{2}$ hours (D) 2 hours

127. The compound interest on a sum of money for 2 years is ₹ 615 and the simple interest for the same period is ₹ 600. Find the principal.

(A) ₹ 8,000 (B) ₹ 9,500

(C) ₹ 6,500 (D) ₹ 6,000

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128. In Δ ABC, $\angle A = \angle B = 60°$, AC = $\sqrt{13}$ cm. The lines AD and BD intersect at D with $\angle D = 90°$. If DB = 2 cm, then the length of AD is

(A) 4 cm (B) 4·7 cm

(C) 3 cm (D) 3·5 cm

129. In Δ ABC, the medians AD, BE and CF intersect each other at the point G. If the area of Δ ABC is 36 sq. cm, then the area (in sq. cm) of the quadrilateral BDGF is equal to

(A) 18 (B) 24

(C) 6 (D) 12

130. In Δ ABC, D is the mid-point of BC. Length of AD is 27 cm. N is a point on AD such that the length of DN is 12 cm. The distance of N from the centroid of Δ ABC is equal to

(A) 9 cm (B) 15 cm

(C) 3 cm (D) 6 cm

131. If $\tan(A + B) = \sqrt{3}$ and $\tan(A - B) = \frac{1}{\sqrt{3}}$, $\angle(A + B) < 90°$, $A \geq B$, then $\angle A$ is

(A) 45° (B) 60°

(C) 90° (D) 30°

132. The value of $\frac{\sin\theta - 2\sin^3\theta}{2\cos^3\theta - \cos\theta}$ is equal to

(A) $\tan\theta$ (B) $\cot\theta$

(C) $\sin\theta$ (D) $\cos\theta$

133. If $r\sin\theta = \frac{7}{2}$ and $r\cos\theta = \frac{7\sqrt{3}}{2}$, then the value of r is

(A) 5 (B) 7

(C) 4 (D) 3

134. If $\theta + \phi = \frac{\pi}{2}$ and $\sin\theta = \frac{1}{2}$, then the value of $\sin\phi$ is

(A) $\frac{1}{2}$ (B) $\frac{\sqrt{3}}{2}$

(C) 1 (D) $\frac{1}{\sqrt{2}}$

135. If $a + b + c + d = 4$, then the value of

$$\frac{1}{(1-a)(1-b)(1-c)} + \frac{1}{(1-b)(1-c)(1-d)} + \frac{1}{(1-c)(1-d)(1-a)} + \frac{1}{(1-d)(1-a)(1-b)}$$ is

(A) 1 (B) 4

(C) 0 (D) 5

136. If $t^2 - 4t + 1 = 0$, then the value of $t^3 + \frac{1}{t^3}$ is

(A) 52 (B) 64

(C) 44 (D) 48

137. If $a^{1/3} + b^{1/3} + c^{1/3} = 0$, then a relation among a, b, c is

(A) $a + b + c = 3abc$

(B) $a^3 + b^3 + c^3 = 0$

(C) $a + b + c = 0$

(D) $(a + b + c)^3 = 27abc$

138. If $\sqrt[3]{a} + \sqrt[3]{b} = \sqrt[3]{c}$, then the simplest value of $(a + b - c)^3 + 27abc$ is

(A) -3 (B) 0

(C) -1 (D) 3

139. The side BC of a triangle ABC is extended to D. If $\angle ACD = 120°$ and $\angle ABC = \frac{1}{2}\angle CAB$, then the value of $\angle ABC$ is

(A) 60° (B) 20°

(C) 80° (D) 40°

140. Two circles having radii r units intersect each other in such a way that each of them passes through the centre of the other. Then the length of their common chord is

(A) $r\sqrt{5}$ units (B) r units

(C) $r\sqrt{2}$ units (D) $r\sqrt{3}$ units

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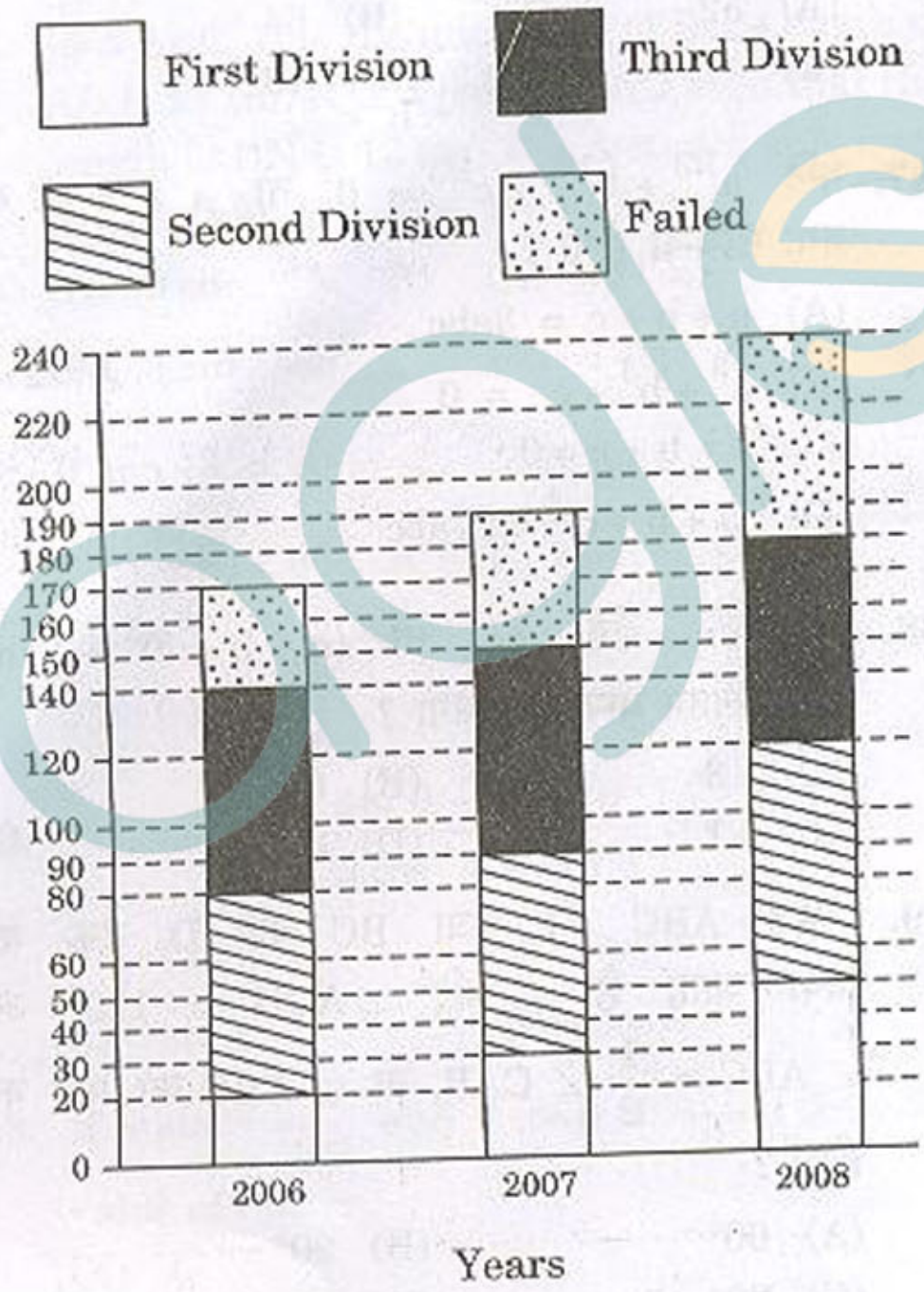
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141. The angle of elevation of the top of a tower from a point on the ground is 30° and moving 70 metres towards the tower it becomes 60°. The height of the tower is

(A) $10\sqrt{3}$ metres (B) $35\sqrt{3}$ metres

(C) 10 metres (D) $\frac{10}{\sqrt{3}}$ metres

Directions : *The subdivided bar diagram given below depicts the result of B. Com. students of a college for 3 years. Study the graph and answer the questions no. 142 to 145.*



142. What was the pass percentage in 2008 ?

(A) 75% (B) 78%

(C) $33\frac{1}{3}\%$ (D) $82\frac{6}{17}\%$

143. What was the number of third divisions i 2006 ?

(A) 59 (B) 120

(C) 60 (D) 140

144. In which year, did the college have the be result for B. Com ?

(A) 2007 (B) 2006

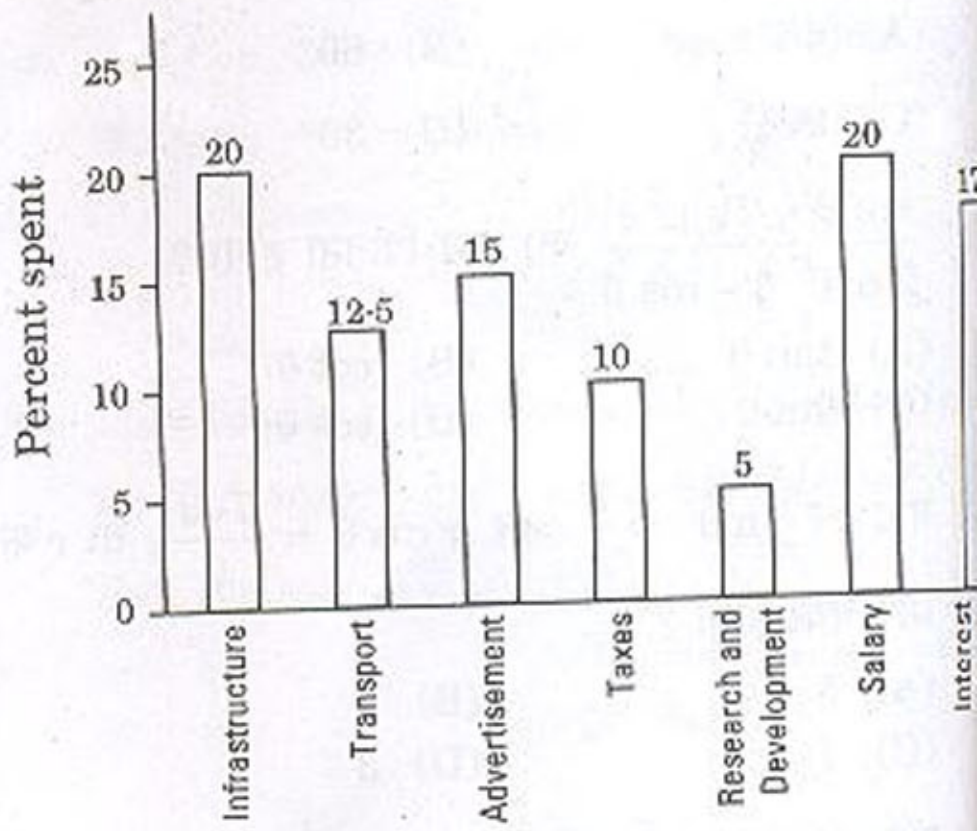
(C) 2007 and 2008 (D) 2008

145. How many percent passed in first division i 2007 ?

(A) $16\frac{2}{3}\%$ (B) $12\frac{1}{2}\%$

(C) $15\frac{15}{19}\%$ (D) $11\frac{13}{17}\%$

Directions : *The bar-graph given below shows t percentage distribution of total expenditures of company under various expense heads during 20 Study the graph and answer the questions no. 1 to 150.*



146. The ratio of the total expenditure infrastructure and transport to the t expenditure on taxes and interest on loans

(A) 9 : 7 (B) 13 : 11

(C) 5 : 4 (D) 8 : 7

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147. If the expenditure on advertisement is ₹ 2·10 crores, then the difference between the expenditures on transport and taxes is

(A) ₹ 65 lakhs (B) ₹ 95 lakhs

(C) ₹ 25 lakhs (D) ₹ 35 lakhs

148. If the total amount of expenditure of the company is N times the expenditure on research and development, then the value of N is

(A) 20 (B) 27

(C) 5 (D) 18

149. If the interest on loans amounts to ₹ 2·45 crores, then the total amount of expenditure on advertisement, taxes and research and development is

(A) ₹ 5·4 crores (B) ₹ 7 crores

(C) ₹ 2·4 crores (D) ₹ 4·2 crores

150. The expenditure on the interest on loans is what percent more than the expenditure on transport ?

(A) 20% (B) 40%

(C) 5% (D) 10%

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142. The value of

$$\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right)\left(1-\frac{1}{5}\right)\ldots\left(1-\frac{1}{n}\right) \text{ is}$$

(A) $\frac{2(n-1)}{n}$ (B) $\frac{2}{n(n-1)}$

(C) $\frac{1}{n}$ (D) $\frac{2}{n}$

143. If the perimeter of a square be $8\sqrt{2}$ cm, then the length of its diagonal is

(A) $2\sqrt{2}$ cm (B) $\sqrt{2}$ cm

(C) 2 cm (D) 4 cm

144. If $\sec\theta + \cos\theta = 7$, then the value $\sec^2\theta + \cos^2\theta$ is

(A) 49 (B) 28

(C) 46 (D) 47

145. The value of $\cot^2\theta - \cos^2\theta$ is equal to

(A) $\cos^2\theta \sin^2\theta$ (B) $\cos^2\theta \cot^2\theta$

(C) $\cot^2\theta \sin^2\theta$ (D) $\tan^2\theta \cos^2\theta$

146. The value of $\frac{1}{6}+\frac{1}{12}+\frac{1}{20}+\frac{1}{30}+\frac{1}{42}$ is

(A) $\frac{2}{17}$ (B) $\frac{3}{14}$

(C) $\frac{5}{14}$ (D) $\frac{1}{14}$

147. What number should be in place of x
7 : 14 = 15 : x ?

(A) 35 (B) 42

(C) 28 (D) 30

148. A moneylender finds that due to an incre in the rate of interest from 12% to 15%, yearly income increases by ₹ 1,215. capital is

(A) ₹ 40,500 (B) ₹ 41,500

(C) ₹ 35,000 (D) ₹ 40,000

149. The difference between the percent equivalent of $\frac{2}{7}$ and $\frac{2}{13}$, each correct to place of decimal, is

(A) 13·3 (B) 13·4

(C) 13·2 (D) 13·1

150. The simplified value of

$$\frac{a^2}{(a-b)(a-c)}+\frac{b^2}{(b-c)(b-a)}+\frac{c^2}{(c-a)(c-b}$$

(A) 1 (B) abc

(C) a + b + c (D) $\frac{1}{a+b+c}$

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PART IV : GENERAL AWARENESS

151. Universal adult franchise shows that India is a country which is

(A) Democratic (B) Sovereign

(C) Secular (D) Socialist

152. How many fundamental duties are there in our Indian Constitution ?

(A) 12 (B) 8

(C) 11 (D) 9

153. In which year was Anti-Defection Bill passed by the Indian Parliament ?

(A) 1990 (B) 1995

(C) 1980 (D) 1985

154. The World Trade Organisation (W.T.O.) came into effect in

(A) 1995 (B) 1997

(C) 1990 (D) 1993

155. Which Article of the Constitution enjoins the State to establish Village Panchayat ?

(A) Article 44 (B) Article 57

(C) Article 32 (D) Article 40

156. The word 'Buddha' means

(A) An Enlightened one

(B) A Wanderer

(C) A Conqueror

(D) A Liberator

157. 1917 is known for

(A) End of the World War I

(B) The Russian Revolution

(C) Battle of Trafalgar

(D) Battle of Waterloo

158. What is meant by 'Capital Gain' ?

(A) Appreciation in the money value of assets

(B) Additions to the capital invested in a business

(C) Part of profits added to the capital

(D) None of these

159. Which of the following listed is ***not*** a feature of organic farming ?

(A) Use of synthetic fertilizers

(B) Very less energy consumption

(C) The non-use of chemical fertilizers and pesticides

(D) Soil is nurtured for future use by maintaining micro-organisms

160. Which of the schemes of the Government of India makes Indian cities free from slums ?

(A) Rajiv Awas Yojana

(B) Antyodaya

(C) Indira Awas Yojana

(D) Central Rural Sanitation Programme

161. Indian economy is a

(A) Capitalistic economy

(B) Centralised economy

(C) Mixed economy

(D) Communistic economy

162. Who is called the 'Father of Economics' ?

(A) Adam Smith

(B) Alfred Marshall

(C) Max Muller

(D) Karl Marx

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163. The longest river in the world is

(A) Brahmaputra (B) Amazon

(C) Ganga (D) Nile

164. The main function of palisade parenchyma in leaf is

(A) Respiration (B) Photosynthesis

(C) Transpiration (D) Conduction

165. The harmful substances produced by the microbes are known as

(A) Hormones

(B) Toxins

(C) Antibiotics

(D) Pollutants

166. For immediate energy production in cells, one should take

(A) Vitamin C

(B) Sucrose

(C) Glucose

(D) Proteins

167. In human body, ligaments are made up of

(A) yellow fibres only

(B) yellow fibres and muscle fibres

(C) white fibres and some yellow elastic fibres

(D) white fibres only

168. Which one of the following types of malaria is pernicious malaria ?

(A) Tertian (B) Malignant

(C) Vivax (D) Relapse

169. Who wrote the book 'Systema Naturae' ?

(A) Darwin (B) Linnaeus

(C) Lamarck (D) Buffon

170. Who built the famous Vaikunta Perumal temple at Kanchipuram ?

(A) Nandi Varman II

(B) Aparajita Varman

(C) Narasimha Varman II

(D) Parameshvara Varman II

171. U.N.O. was founded in the year

(A) 1950 (B) 1953

(C) 1945 (D) 1946

172. The first to invade India were the

(A) Persians (B) Arabs

(C) Aryans (D) Greeks

173. Niyamgiri hill is located in Kalahandi district of

(A) Punjab (B) Kerala

(C) Orissa (D) West Bengal

174. A cyclone occurs when

(A) there is a low pressure in the centre and high pressure around

(B) the pressure in the centre is equal to the pressure around

(C) there is low pressure all around

(D) there is a high pressure in the centre and low pressure around

175. The previous name of Zaire was

(A) Congo (B) Sierra Leone

(C) Benin (D) Liberia

176. The largest fresh water lake in India is

(A) Wular Lake

(B) Nainital Lake

(C) Dal Lake

(D) Bhimtal Lake

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177. The Indian Supercomputer built by CRL, Pune which ranked fourth fastest in the world and most powerful in Asia is called

(A) EKA (B) SAGA

(C) Virgo (D) Param

178. A solution is

(A) a solid dissolved in water

(B) a mixture of two liquids

(C) a homogeneous mixture of two or more substances

(D) a solid dissolved in a liquid

179. The first organic compound synthesised in the laboratory was

(A) Lactic acid

(B) Glucose

(C) Urea

(D) Uric acid

180. The buffer action of blood is due to the presence of

(A) Cl^- and HCO_3^-

(B) HCO_3^- and H_2CO_3

(C) HCl and NaCl

(D) Cl^- and CO_3^{2-}

181. Which one of the following contains maximum percentage of carbon ?

(A) Wrought iron

(B) High speed steel

(C) Cast iron

(D) Stainless steel

182. Which of the following appeared to be with a significant potential for accumulation through food chains ?

(A) Lindane (B) Carbaryl

(C) DDT (D) Parathion

183. A metal ball and a rubber ball, both having the same mass, strike a wall normally with the same velocity. The rubber ball rebounds and the metal ball does not rebound. It can be concluded that

(A) Both suffer the same change in momentum

(B) The initial momentum of the rubber ball is greater than that of the metal ball

(C) The rubber ball suffers greater change in momentum

(D) The metal ball suffers greater change in momentum

184. If the phase difference between two points is 120° for a wave with velocity of 360 m/s and frequency 500 Hz, then path difference between the two points is

(A) 12 cm (B) 24 cm

(C) 1 cm (D) 6 cm

185. If a body moves with a constant speed in a circle

(A) no acceleration is produced in it

(B) its velocity remains constant

(C) no work is done on it

(D) no force acts on it

186. The waves used in sonography are

(A) Sound waves

(B) Ultrasonic waves

(C) Micro waves

(D) Infra-red waves

187. Fifth Generation Computers are

(A) Data Interpreters

(B) Data Controllers

(C) Data Processors

(D) Knowledge Processors

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188. Name the oldest Indian civilization.
(A) Mesopotamian civilization
(B) Egyptian civilization
(C) Indus Valley civilization
(D) None of these

189. Who is the author of 'A Suitable Boy' ?
(A) Arundhati Roy
(B) Khushwant Singh
(C) Vikram Seth
(D) None of these

190. Who was awarded the first Rajiv Gandhi National Sadbhavana Award ?
(A) Mother Teresa
(B) Morarji Desai
(C) J.R.D. Tata
(D) None of these

191. International Literacy Day is observed on which one of the following days every year ?
(A) 28th March
(B) 18th September
(C) 8th September
(D) 18th March

192. Who among the following Mughal rulers has been called the 'Prince of Builders' ?
(A) Shah Jahan
(B) Babur
(C) Akbar
(D) Jahangir

193. Name the American film cartoonist who created Mickey Mouse and Donald Duck.
(A) Steven Spielberg
(B) Hanna Barbera
(C) Warner Brothers
(D) Walt Disney

194. An earthquake is also known as
(A) Tremor
(B) Temper
(C) Teacher
(D) None of these

195. Our atmosphere is divided into _____ layers.
(A) Four
(B) Five
(C) Two
(D) Three

196. Lungs of a plant are
(A) Flowers
(B) Roots
(C) Leaves
(D) Stems

197. Who has authored the book titled 'Narendra Modi : A Political Biography' ?
(A) Jeffrey Dell
(B) Kingsley Amis
(C) Andy Marino
(D) David Irving

198. Who invented the electric bulb ?
(A) Thomas Alva Edison
(B) James Watt
(C) Thomas More
(D) None of these

199. Who invented aeroplane ?
(A) Hoffman
(B) Wright Brothers
(C) Edison
(D) Stevenson

200. Who is called Rawalpindi Express ?
(A) Rahul Dravid
(B) Imran Khan
(C) Sachin Tendulkar
(D) Shoaib Akhtar

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