disha
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PRACTICE SET 1

Time : 1 Hour

Max. Marks : 100

QUANTITATIVE APTITUDE

DIRECTIONS (Qs. 1-5) : *What should come in place of question mark (?) in the following question?*

1. $\dfrac{5.5 \times 6.4}{0.4}$?
   (a) 80   (b) 78   (c) 88   (d) 84
   (e) None of these

2. $(? - 968) \div 79 \times 4 = 512$
   (a) 11080   (b) 10180   (c) 11070
   (d) 10185   (e) None of these

3. $\dfrac{4}{7} \times \dfrac{2}{3} \times ?$ 1008
   (a) 2688   (b) 2604   (c) 2666   (d) 2646
   (e) None of these

4. $(764 \times ?) \div 250 = 382$
   (a) 115   (b) 135   (c) 145   (d) 125
   (e) None of these

5. $3.7 \times 0.04 + 5.9 = ?$
   (a) 6.48   (b) 6.032   (c) 6.048   (d) 6.084
   (e) None of these

6. Which is the smallest of the following numbers?
   (a) $\sqrt{7}$ (b) $\dfrac{1}{\sqrt{7}}$ (c) $\dfrac{\sqrt{7}}{7}$ (d) $\dfrac{1}{7}$
   (e) None of these

7. A machine is sold at a profit of 10%. Had it been sold for ₹ 80 less, there would have been a loss of 10%. The cost price of the machine is
   (a) ₹350   (b) ₹400   (c) ₹450   (d) ₹520
   (e) None of these

8. The angles of a triangle are in the ratio of 5 : 6 : 7. respectively. What is the sum of the smallest angle and the largest angle together?
   (a) 130°   (b) 100°   (c) 110°   (d) 140°
   (e) None of these

9. *A* can do a piece of work in *'x'* days and *B* can do the same work $3x$ days, To finish the work together they take 12 days. What is the value of *'x'*?
   (a) 8   (b) 10   (c) 12   (d) 16
   (e) None of these

10. If the numerator of a fraction is increased by 300% and the denominator is increased by 100%. The resultant fraction is $1\dfrac{11}{19}$. What was the original fraction?
    (a) $\dfrac{15}{19}$ (b) $\dfrac{13}{19}$ (c) $\dfrac{5}{9}$ (d) $\dfrac{4}{9}$
    (e) None of these

11. In how many different ways can the letters of the word 'CASUAL' be arranged?
    (a) 36   (b) 720   (c) 240   (d) 360
    (e) None of these

12. On a School's Annual Day sweets were to be equally distributed amongst 112 children. But on that particular day, 32 children were absent. Thus, the remaining children got 6 extra sweets. How many sweets was each child originally supposed to get?
    (a) 24   (b) 18   (c) 15
    (d) Cannot be determined
    (e) None of these

13. The sum of the two digits of a number is 15 and the difference between them is 3. What is the product of the two digits of the two digit number?
    (a) 56   (b) 63   (c) 42
    (d) Cannot be determined
   (e) None of these

DIRECTIONS (Qs. 14-16) : *What should come in place of the question mark (?) in the following number series?*

14. 24, ?, 109, 134, 150, 159
    (a) 71   (b) 65   (c) 86   (d) 53
    (e) None of these

15.   17, 9, 10, ?, 35, 90
   (a)   21   (b)   27.5'   (c)   19   (d)   16.5
   (e)   None of these

16.   3, 20, 78, 332, 1680, ?
   (a)   8410   (b)   9836   (c)   10098   (d)   1150
   (e)   None of these

DIRECTIONS (Qs. 17-21) : *Study the following information carefully and answer the given questions.*

Cost of three different fruits (in rupees per kg. in five different cities)
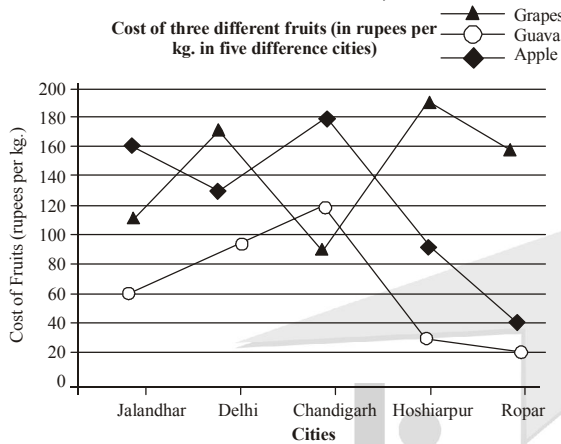
17.   In which city is the difference between the cost of one kg of apple and cost of one kg of guava second lowest?
   (a)   Jalandhar   (b)   Delhi
   (c)   Chandigarh   (d)   Hoshiarpur
   (e)   Ropar

18.   Cost of one kg of guava in Jalandhar is approximately what percent of the cost of two kgs of grapes in Chandigarh?
   (a)   66   (b)   24   (c)   28   (d)   34
   (e)   58

19.   What total amount will Ram pay to the shopkeeper for purchasing 3 kgs of apples and 2 kgs of guavas in Delhi?
   (a)   ₹ 530/-   (b)   ₹ 450/-   (c)   ₹ 570/-
   (b)   ₹ 620/-   (e)   ₹ 490/-

20.   Ravinder had to purchase 45 kgs of grapes from Hoshiarpur. Shopkeeper gave him discount of 4% per kg. What amount did he pay to the shopkeeper after the discount?
   (a)   ₹ 8,208/-   (b)   ₹ 8,104/-
   (c)   ₹ 8,340/-   (b)   ₹ 8,550/-
   (e)   ₹ 8,410/-

21.   What is the respective ratio between the cost of one kg of apples from Ropar and the cost of one kg of grapes from Chandigarh?
   (a) $3:2$ (b) $2:3$ (c) $2^2:3^2$
   (d) $4^2:9^2$ (e) $9^2:4^2$

DIRECTIONS (Qs. 22-25): For the two given equations I and II.

Give answer (a) if p is greater than q.
Give answer (b) if p is smaller than q.
Give answer (c) if p is equal q.
Give answer (d) if p is either equal to or greater than q.
Give answer (e) if p is either equal or smaller than q.

22.   I. $p^2 + 5p + 6 = 0$
      II. $q^2 + 3q + 2 = 0$
23.   I. $p^2 = 4$
      II. $q^2 + 4q = -4$
24.   I. $p^2 + p = 56$
      II. $q^2 - 17q + 72 = 0$
25.   I. $3p + 2q - 58 = 0$
      II. $4q + 4p = 92$

REASONING ABILITY & COMPUTER APTITUDE

DIRECTIONS (Qs. 26-29) : *In these questions, relationships between different elements is shown in the statements. These statements are followed by two conclusions.*

Give answer (a) if **only** conclusion **I** follows
Give answer (b) if **only** conclusion **II** follows
Give answer (c) if **either** conclusion **I** or conlcusion **II** follows
Give answer (d) if **neither** conclusions **I** nor conlcusion **II** follows
Give answer (e) if **both** conclusions **I and II** follow

26.   **Statement:** R ≥ S ≥ T   U   X; T   V   W
      Conclusions: I.   R > X
               II.   X < W
27.   **Statement:** E = F < G < H; G ≥ I
      Conclusions: I.   H > I
               II.   E ≥ I
28.   **Statement:** A > B > F > C; D > E > C
      Conclusions: I.   C < A
               II.   B   D

29. **Statement:** K ≤ L ≤ M = N; P ≥ O ≥ N
    Conclusions: **I.** K < P
                    II. K = P

DIRECTIONS (Qs. 30-32) : *Study the following information carefully to answer the given questions*

'good clothes are costly' is coded as 'la pa zi ta'
'new clothes are good' is coded as 'pa zi la sa'
'designs are very nice' is coded as 'na hi ga pa'
'good colour and designs' is coded as 'zi mi jo ga'

30. How will 'good new designs' be coded in the given language ?
    (a) zi la sa   (b) zi sa ga   (c) sa mi jo
    (d) pa zi mi   (e) None of the these
31. How is 'nice' coded in the given coded language ?
    (a) pa   (b) na   (c) jo
    (d) Either na or hi   (e) None of the these
32. What does 'pa' stands for ?
    (a) new   (b) designs   (c) are
    (d) colour   (e) None of the these

DIRECTIONS (Qs. 33-37) : *Study the given information carefully and answer the given questions.*

Eight people - J, K, L, M, N, O, P and Q are sitting around a circular table facing the centre, not necessarily in the same order. O is sitting third to the right of M. There is only one person sitting between M and J. There are only three people between J and K. P is an immediate neighbour of J. There are only three people between P and L. N is second to the right of P.

33. Which of the following is **true** regarding the given arrangement?
    (a) M is an immediate neighbour of K
    (b) N is an immediate neighbour of J
    (c) P is second to the left of O
    (d) There are four people between N and O.
    (e) None is true
34. Who is sitting second to the left of the one who is sitting second to the left of Q?
    (a) M   (b) K   (c) N   (d) L
    (e) J
35. 'Four of the following five are alike in a certain way based on their seating positions in the above arrangement and so form a group. Which one does **not** belong to the group?
    (a) PQ   (b) KL   (c) MN   (d) QO
    (e) KO

36. What is N's position with respect to K?
    (a) Second to the left
    (b) Second to the right
    (c) Third to the left
    (d) Third to the right
    (e) Fourth to the left
37. How many people are sitting between K and P when counted from the right side of K?
    (a) One   (b) Two   (c) Three   (d) None
    (e) More than three

DIRECTIONS (Qs. 38-40): *In each of the questions below, two statements are given followed by two conclusions numbered I and II. You have to take the two statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follows from the given statement disregarding the commonly known facts.*

Give answer (a) if **only** concluion **I** follows
Give answer (b) if **only** concluion **II** follows
Give answer (c) if **either** concluion **I** or conclusion **II** follows
Give answer (d) if **neither** conclusion **I** nor conclusion **II** follows
Give answer (e) if **both** conclusions **I and II** follows

38. **Statements :** Some rings are circles.
    No circle is a square.
    Conclusions : I. No ring is a square.
                       II. All rings are squares.
39. **Statements :** All rows are lines.
    All lines are queues.
    Conclusions: I. All rows are queues.
                      II. Atleast some queues are lines.
40. **Statements :** All laptops are computers.
    Some laptops are notebooks.
    Conclusions: I. Some notebooks are computers
                      II. All notebooks are computers.

DIRECTIONS (Qs. 41-45) : *Study the folowing information carefully to answer the given questions*

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12 People are sitting in 2 parallel rows containing 6 people each in such a way that there is an equal distance between adjacent persons. In row 1 - P, Q, R, S, T and V are seated and all of them are facing south. In row 2 - A, B, C, D, E and F are seated all of them are facing north.

A sits 3rd to right of D. Neither A nor D sits at extreme ends. T faces D. V does not face A and V does not sit at any of the extreme ends. V is not an immediate neighbour of T. B sits at on of the extreme ends. Only 2 people sit between B and E. E does not face V. 2

persons sit between R and Q. R is not an immediate neighbour of T. C does not face V. P is not an immediate neighbour of R.

41. Who among the following sits at extreme ends of the rows ?
    (a) C, A
    (b) P, R
    (c) C, B
    (d) Both B and C
    (e) None of these

42. How many persons are seated between T and S ?
    (a) 1
    (b) 2
    (c) 3
    (d) More than 3
    (e) None of these

43. Who among the following faces D ?
    (a) P   (b) Q   (c) T   (d) S
    (e) None of these

44. Who among the following sits between Q and S ?
    (a) V   (b) R   (c) P   (d) T
    (e) None of these

45. Which of the following statement is not true ?
    (a) Q sits between T and V
    (b) E is an immediate neighbour of D and F
    (c) F is immediate left of A
    (d) 2 people sit between T and R
    (e) None of these

DIRECTIONS (Qs. 46-48) : *Following questions are based on five words given below:*

WIT BAR URN ELF TOP

(The new words formed after performing the mentioned operations may or may not necessarily be meaningful English words)

46. If in each of the words, all the alphabets are arranged in English alphabetical order within the word, how many words will NOT begin with a vowel ?
    (a) None (b) One (c) Two
    (d) Three (e) More than three

47. How many letters are there in the English alphabetical series between second letter of the word which is second from the right and the third letter of the word which is third from the left of the given words?
    (a) One (b) Two (c) Three (d) Four
    (e) Five

48. If in each of the given words, each of the consonants is changed to previous letter and each vowel is changed to next letter in the English alphabetical series, in how many words thus formed will no vowels appear ?

    (a) None (b) One (c) Two
    (d) Three (e) More than three

49. What is the default extension of Microsoft Word 2013 ?
    (a) .dcc (b) .docx (c) .xls (d) .ppt
    (e) .ycs

50. Which unit is a computational digital electronic circuit that performs arithmetic and bitwise operations on integer binary numbers ?
    (a) BOU (b) AEU (c) CPU (d) ALU
    (e) UPS

GENERAL ENGLISH

DIRECTIONS (Qs. 51 -55) : *Read the following passage carefully and answer the questions given below. Some words are printed in bold in order to help you locate them while answering some of the questions.*

Delhi is charming. Its charm has not failed to fascinate anyone. The Pandavas who are believed to have built the shining city of Indraprastha somewhere close to what is now the Purana Qila; Qutbuddin Eibak, who got the tall brick-minar built there; the Lodis, who created the Shisha Gumbad in the **exquisite** parks; the Mughals, who gave Delhi not just the Lal Qila but many majestic structures; and the British, who left behind for us Edwin Lutyen's Delhi, all came under Delhi's charm and, in turn, added their bit to it. For over a thousand years, and probably for a much longer time in its uncertain past, Delhi has continued to fascinate the rest of India, too. It will not be an **exaggeration** at all to say that all roads in India lead to Delhi - - the place, the history and the legend. Delhi, despite its polluted air, its political **skulduggery**, its many masks and its history of massacres and riots, continues to enchant India.

My first visit to Delhi was over half a century ago. In January 1968, as a young college student, I went there to meet Lalita Gouri Shastri. It was two years after Lal Bahadur Shastri met with an untimely death. Receiving a strange lad from the South whose Hindi expression was awkward and who was terrified to be in such a large city, she was warm, affectionate and as simple as a rustic song. As I was leaving, she gently touched my head to bless me and said, daro mat, fear not.

For the rest of the time, before catching my return train, I went around looking at as many monuments

as a quick rickshaw ride allowed. Most of them created a sense of awe in my mind. I could not reconcile the contrast between Lalitaji's touching simplicity and the awe-striking monuments of Delhi. Is Delhi the legacy of Nadir Shah's **...A.....** or the melancholic love of Mirza Ghalib? I have often wondered if Ghalib was not speaking to many of the Shahs of the past when he wrote in his lonely last years, "tere vaade pe jiye hum, to yeh jano, jhoota jana/ke Khushi se mar na jaate eitbar hota" (It was your promises that kept me alive, though I knew they were pure lies. Had they been true, would I not have died of delight?). In Delhi, one does not have to be a poet of Ghalib's genius to know a lie to be a lie. Every Lalita Devi in Delhi has the courage to face the terror of every Shah; every Ghalib has the wits to know the lies doled out as promises.

51. Which of the following words could replace "**exquisite**", as highlighted in the above passage, to make the statement grammatically and contextually correct?
    (a) Dainty (b) Improvise (c) Raw
    (d) Rudimentary
    (e) None of these

52. Which of the following words could fit in the blank '**A'**, to make the statement grammatically and contextually correct?
    (a) politeness   (b) ferocity
    (c) angrily   (d) warning
    (e) none

53. Which of the following statements is not true as per the information given in the passage?
    (a) It is believed that Pandavas built indraprastha near Purana Qila.
    (b) Qutbuddin Eibak created the Shisha Gumbad in the exquisite parks in Delhi.
    (c) The British, who left behind for us Edwin Lutyen's Delhi, all came under Delhi's charm and, in turn, added their bit to it.
    (d) Delhi, despite its polluted air, its political skulduggery, its many masks and its history of massacres and riots, continues to enchant India.
    (e) None of these

54. Which of the following words is same in meaning to the word **skulduggery**?
    (a) Trickery   (b) Swindling
    (c) Machination   (d) Chicanery
    (e) All of these

55. Which of the following words is opposite in meaning to the word **exaggerat**?
    (a) Inflate   (b) Embellish
    (c) Overemphasize   (d) Understate
    (e) All of these

DIRECTIONS (Qs. 56 -60): *In each of the following sentences, there is a blank space. Below each such sentence, there are five options with one word each. Fill up the blanks with the word that makes the sentence grammatically and contextually correct.*

56. The northern summers find compensation for **..........** in duration of sunshine and light.
    (a) baking (b) brevity (c) full
    (d) drown (e) gulp

57. When the old song came on the radio, Harold suddenly felt **............** for his high school years.
    (a) cooling (b) amiable (c) nostalgic
    (d) gasp (e) grinning

58. Time is of the essence, so you want to possess the capacity to **............** significant portions of the original idea and move on to the next iteration.
    (a) jettison (b) eloquent (c hinder
    (d) stroll (e) none

59. Cold wind **..........** snow against her face.
    (a) gazed (b) mocked (c) googled
    (d) run (e) whipped

60. The **...............** from the army to the parliament for arrears of pay was suppressed.
    (a) dealing (b) court (c) petition
    (d) dealer (e) mockery

DIRECTIONS (Qs. 61 -65): *In the passage given below there are blanks which are to be filled with the options given below. Find out the appropriate word in each case which can most suitably complete the sentence without altering the meaning of the statement.*

Amid a spate of lynching purportedly **(61)…………** by messages on its platform**,** WhatsApp on Wednesday said it is "horrified" by the **"(62)…………………….**acts of violence", and **(63)…………………** steps being taken by the company to **(64)……………………** abuse of the messaging platform. The government had, on Tuesday, issued a **(65)…………………** warning to the social media platform asking it to take immediate measures to prevent the spread of "irresponsible and explosive messages."

61. (a) Halted   (b) stopped
    (c) deterred   (d) triggered
    (e) pacing up
62. (a) Ultimate   (b) unbelievable
    (c) incredible   (d) credulous
    (e) terrible
63. (a) Underlined   (b) outlined
    (c) created   (d) signified
    (e) enlightened
64. (a) press   (b) downed
    (c) curb   (d) reflect
    (e) release
65. (a) Lenient   (b) static
    (c) meek   (d) stern
    (e) docile

DIRECTIONS (Qs. 66-70): *In each Question below, a sentence is given with four words given in Bold in the sentence. Among these bold words one may be wrongly spelt. The option of that word is the answer. If all four words are correctly spelt mark e. i.e. 'All Correct' as the answer.*

66. India, as the world's fastest-**growing** major **economy**, may well be **catching** up with the richer economies in terms of **absolute** size.
    (a) growing   (b) economy
    (c) catching   (d) absolute
    (e) All correct
67. Economic **convergance** within the country remains a **distant** dream as poorer States **continue** to lag behind the richer ones in economic **growth**.
    (a) convergance   (b) distant
    (c) continue   (d) growth
    (e) All correct
68. Many low-income States have **experianced isolated** years of strong **economic** growth above the national **average**.
    (a) experianced   (b) isolated
    (c) economic   (d) average
    (e) All correct
69. **Between** fiscal years 2013 and 2018, there has been a **significant** divergence rather than **convergence** in the economic **fortiunes** of the poorer and richer States.
    (a) Between   (b) significant
    (c) convergence   (d) fortiunes
    (e) All correct

70. Indian-American **Senator** Kamala Harris has **emerged** at the top of a Daily Kos straw poll released Wednesday, two days after she **officially plunged** in the 2020 US presidential race.
    (a) Senator   (b) emerged
    (c) officially   (d) plunged
    (e) All correct

DIRECTIONS (Qs. 71-75): *Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is (e). (Ignore errors of punctuation, if any).*

71. One should study the history (a)/ of his country because it alone can satisfy (b)/ one's natural curiosity to know (c)/ what happened in the past. (d)/ No error (e)
72. It is interesting to note (a)/ that the greatest lines in poetry are simple (b)/ and yet there is with them some quality (c)/ which makes them outstandingly great. (d)/ No error (e)
73. In order to make human life happy, (a)/ man should live (b)/as far as possible (c)/ in perfect harmony with nature. (d)/ No error (e)
74. You have heard (a)/ of Socrates, I suppose. (b)/ Undoubtedly he was one (c)/ of the greatest man of the world. (d)/ No error (e)
75. My daughter never (a)/would write to me (b)/ so I never know (c)/what she is doing. (d)/No error (e).

GENERAL/FINANCIAL AWARENESS

76. What is the full form of 'NBFC' as used in the Financial Sector?
    (a) Non Banking Financial Company
    (b) National Banking & Finance Corporation
    (c) New Business Finance & Credit
    (d) Non Business Fund Company
    (e) None of the above
77. NCHER stands for
    (a) National Capital for Higer Education and Research
    (b) National Committee for Higher Education and Research
    (c) Non-Capitalisation of Higher Education and Research
    (d) National Commission for Higher Education and Research
    (e) None of these

78. The National Stock Exchange functions from
    (a) New Delhi (b) Kolkata
    (c) Mumbai (d) Chennai
    (e) None of these

79. Which of the following organisations gives the Kalinga Prize?
    (a) UNESCO (b) CSIR
    (c) Ministry of Welfare
    (d) Department of Science and Technology
    (e) None of these

80. Name the Central PSU whose team has won the All India Management Association Chanakya (Business Simulation Game) National Management Games 2020.
    (a) Bharat Dynamics
    (b) NTPC Limited
    (c) Bharat Petroleum
    (d) Bharat Electronics Limited
    (e) None of these

81. Fiscal Policy is related to
    (a) Issue of currency
    (b) Credit creation
    (c) Public revenue and expenditure
    (d) All of these
    (e) None of these

82. The Foreign Exchange Reserves of India are kept in the custody of
    (a) Prime Minister Rahat Kosh
    (b) International Monetary Fund
    (c) World Bank
    (d) Reserve Bank of India
    (e) None of these

83. Inflation implies
    (a) Rise in budget deficit
    (b) Rise in general price index
    (c) Rise in price of consumer goods
    (d) Rise in money supply
    (e) None of these

84. The most powerful tool used by the Reserve Bank of India to control inflation is _____
    (a) Raise interest rates
    (b) Reduce interest rates
    (c) Raise currency supply
    (d) Reduce currency supply
    (e) Raise interest rates and reduce currency supply

85. Which of the Cups/Trophies is associated with the game of Cricket ?
    (a) Azlan Shah Cup (b) Davis Cup
    (c) Nehru Gold Cup (d) Ranji Trophy
    (e) Wimbledon Trophy

86. EFT means _____
    (a) Effective Funds Transfer
    (b) Efficient Funds Transfer
    (c) Easy Funds Transfer
    (d) Electronic Funds Transfer
    (e) Electric Funds Transfer

87. Tin Bigha Corridor is a strip of land on the border of India and ___?
    (a) Pakistan (b) Bhutan
    (c) Bangladesh (d) China
    (e) None of these

88. When is International Day for the Total Elimination of Nuclear Weapons observed?
    (a) 25th September (b) 26th September
    (c) 27th September (d) 28th September
    (e) 25th October

89. Name the person whose term as the chairman of Central Board of Direct Taxes has been extended by the government of India by six months.
    (a) Amitabh Kant
    (b) Arvind Panagariya
    (c) Pramod Chandra Mody
    (d) Bibek Debroy
    (e) None of these

90. Name the person who will head the 3-member committee which has been set up to review the effective utilisation of the Armed Forces Headquarters Civil Services (AFHQ CS) cadre.
    (a) Lt. Gen. Shekatkar
    (b) Lt. Gen. Anil Chauhan
    (c) Lt. Gen. CP Mohanty
    (d) Lt. Gen. Iqroop Singh Ghuman
    (e) None of these

91. To promote the culture of cycling in the country, the Cycling Federation of India (CFI) will host the first-ever Cycling Summit in which year?
    (a) 2024 (b) 2023
    (c) 2022 (d) 2021
    (e) None of these

92. Name the Bollywood Filmmaker who has authored a book titled "The Big Thoughts of Little Luv".
    (a) Anurag Kashyap (b) Mahesh Bhatt
    (c) Shyam Benegal (d) Karan Johar
    (e) None of these

93. Name the free-of-cost mobile scanner application recently launched by the students of IIT Bombay.
    - (a) CAM Scanner
    - (b) AIR Scanner
    - (c) View Scanner
    - (d) Water Scanner
    - (e) None of these

94. The Cycling Federation of India (CFI) will host the Cycling Summit in 2021 in Delhi, Mumbai, and _____
    - (a) Bangalore
    - (b) Chennai
    - (c) Lucknow
    - (d) Shimla
    - (e) None of these

95. Name the Mercedes driver who has won the Formula One Belgian Grand Prix 2020.
    - (a) Max Verstappen
    - (b) Valtteri Bottas
    - (c) Esteban Ocon
    - (d) Lewis Hamilton
    - (e) None of these

96. India has withdrawn its participation from the multilateral Military Exercise "Kavkaz 2020" scheduled to be held in _____ from 15th to 26th September 2020.
    - (a) Russia
    - (b) China
    - (c) Kyrgyzstan
    - (d) Pakistan
    - (e) None of these

97. According to the latest estimates of Gross Domestic Product (GDP), the Indian economy has experienced a contraction of _____ in the first quarter (April-June) Q1 of 2020-21.
    - (a) 24.9%
    - (b) 23.9%
    - (c) 22.9%
    - (d) 21.9%
    - (e) None of these

98. As per the announcement made by Prime Minister Narendra Modi, which of the following month will be observed as "Nutrition Month" in year 2020.
    - (a) December
    - (b) November
    - (c) October
    - (d) September
    - (e) None of these

99. Name the multilateral Military Exercise from which India has withdrawn its participation. The exercise was scheduled to be held in Russia from 15th to 26th September 2020.
    - (a) Kavkaz 2020
    - (b) Ekuverin
    - (c) Sampriti
    - (d) COBRA-GOLD
    - (e) None of these

100. World's Largest Solar Tree has been developed by the CSIR-CMERI and has been installed at the Residential Colony of CSIR-CMERI in Durgapur, _____
    - (a) Gujarat
    - (b) Assam
    - (c) Odisha
    - (d) West Bengal
    - (e) None of these

Answer Key

|																			
1	(c)	11	(d)	21	(c)	31	(d)	41	(c)	51	(a)	61	(d)	71	(b)	81	(c)	91	(d)
2	(a)	12	(c)	22	(e)	32	(c)	42	(b)	52	(b)	62	(e)	72	(c)	82	(d)	92	(d)
3	(d)	13	(e)	23	(d)	33	(b)	43	(c)	53	(b)	63	(b)	73	(e)	83	(b)	93	(b)
4	(d)	14	(e)	24	(b)	34	(a)	44	(a)	54	(e)	64	(c)	74	(d)	84	(a)	94	(a)
5	(c)	15	(d)	25	(a)	35	(e)	45	(d)	55	(d)	65	(d)	75	(b)	85	(d)	95	(d)
6	(d)	16	(c)	26	(e)	36	(c)	46	(b)	56	(b)	66	(e)	76	(a)	86	(d)	96	(a)
7	(b)	17	(b)	27	(a)	37	(b)	47	(e)	57	(c)	67	(a)	77	(d)	87	(c)	97	(b)
8	(e)	18	(d)	28	(a)	38	(d)	48	(c)	58	(a)	68	(a)	78	(c)	88	(b)	98	(d)
9	(d)	19	(c)	29	(c)	39	(e)	49	(b)	59	(e)	69	(d)	79	(a)	89	(c)	99	(a)
10	(a)	20	(a)	30	(b)	40	(a)	50	(d)	60	(c)	70	(d)	80	(b)	90	(a)	100	(d)

HINTS & EXPLANATIONS

1. (c) $? = \dfrac{5.5 \times 6.4}{0.4} = 5.5 \times 16 = 88$

2. (a) Let $? = x, \dfrac{(x - 968)}{79} \times 4 = 512$

    $\Rightarrow \quad x = \dfrac{512 \times 79}{4} \quad 968 = 11080$

3. (d) $\dfrac{8}{21} \times ? = 1008 \Rightarrow ? = 1008 \times \dfrac{21}{8}$
    $= 126 \times 21 = 2646$

4. (d) $? = \dfrac{382 \times 250}{764} \quad 125$

5. (c) $? = 3.7 \times 0.04 + 5.9$
    $? = 0.148 + 5.9 \Rightarrow ? = 6.048$

6. (d) Clearly, $\dfrac{1}{7} \quad \dfrac{1}{\sqrt{7}} \quad \dfrac{\sqrt{7}}{7} \quad \sqrt{7}$

    $\Rightarrow \quad \dfrac{1}{7}$ is the smallest number.

7. (b) Let the cost price of the machine be ₹ x.

    Then, selling price at a profit of 10% = ₹ $\dfrac{11x}{10}$

    And the selling price at a loss of 10% = ₹ $\dfrac{9x}{10}$

    Consequently, we find that

    $\left(\dfrac{11x}{10} - \dfrac{9x}{10} \right) \quad 80$

    $\Rightarrow \dfrac{x}{5} = 80 \Rightarrow x \quad ₹ 400$

8. (e) $5x + 6x + 7x = 180°$
    $\Rightarrow \quad 18x = 180°$

    $\Rightarrow \quad x = \dfrac{180}{18} \quad 10$

    $\therefore$ Sum of the smallest and the largest angles
    $= 12x = 12 \times 10 = 120°$

9. (d) 1 day work of $A = \dfrac{1}{x}$

    1 day work of $B = \dfrac{1}{3x}$

    Both A and B 1 day's work $= \dfrac{1}{x} \quad \dfrac{1}{3x} \quad \dfrac{4}{3x}$

    1 day work of both A and $B = \dfrac{1}{12}$

    $\Rightarrow \quad \dfrac{4}{3x} = \dfrac{1}{12} \Rightarrow \quad 3x \quad 48 \quad \therefore x \quad 16$

10. (a) Suppose the fraction is $\dfrac{x}{y}$.

    $\therefore \quad \dfrac{x}{y} \quad \dfrac{3x}{y} \quad \dfrac{30}{19}$

    $\dfrac{4x}{2y} \quad \dfrac{30}{19}$

    $76x = 60y$

    $\dfrac{x}{y} \quad \dfrac{60}{76} \quad \dfrac{15}{19}$

11. (d) There are 6 letters in the word CASUAL and 'A' comes two times.

    Required number of permutations $= \dfrac{6!}{2!}$

    $= \dfrac{6 \times 5 \times 4 \times 3 \times 2!}{2!}$
    $= 6 \times 5 \times 4 \times 3 = 360$

12. (c) Suppose each child got x sweets.
    $\therefore \quad 112 \times x = (112 - 32) \times (x + 6)$
    $112x = 80 \times (x + 6)$
    $112x = 80x + 480$
    $112x - 80x = 480$
    $32x = 480 \Rightarrow x = 15$

13. (e) $x + y = 15$ ...(i)
    $x - y = 3$ ...(ii)
    Solving Eqs. (i) and (ii), we get
    $x = 9, y = 6$
    Product of two digits of the number
    $= 9 \times 6 = 54$

14. (e) The pattern of number series is as follows:
    $24 \quad 7^2 \quad \boxed{73}$
    $73 + 6^2 = 109$
    $109 + 5^2 = 134$
    $134 + 4^2 = 150$
    $150 \quad + 3^2 = 159$
    Hence, the question mark (?) should be replaced by 73.

15. (d) The pattern of number series is as follow:
    $17 \times 0.5 + 0.5 = 9$
    $9 \times 1 + 1 = 10$
 $10 \times 1.5 \quad 1.5 \quad \boxed{16.5}$

$16.5 \times 2 + 2 = 35$

$35 \times 2.5 + 2.5 = 90$

Hence, the question mark (?) should be replaced by 16.5.

16. (c) The pattern of number series is as follows:

$3 \times 2 + 14 = 20$

$20 \times 3 + 18 = 78$

$78 \times 4 + 20 = 332$

$332 \times 5 + 20 = 1680$

$1680 \times 6 \quad 18 \quad \boxed{10098}$

Hence, the question mark should be replaced by 10098.

17. (b) Difference between cost of 1 kg apple and cost of 1 kg guava in 5 cities.

J $160 - 60 = 100$

D $130 - 90 = 40$

C $180 - 120 = 60$

H $90 - 30 = 60$

R $40 - 20 = 20$

∴   Cost is second lowest in Delhi.

18. (d) Cost of 1 kg guava in Jalandhar = ₹ 60

Cost of 2 kg grapes in chandigarh = ₹ 90 × 2 = ₹ 180

$\% = \dfrac{60}{180} \times 100 = 33.3 = 34\%$

19. (c) Cost of 3 kgs apples for Ram = 3 × 130 = ₹ 390

Cost of 2 kgs guavas for Ram = 2 × 90 = ₹ 180

Total cost that Ram pay = 390 + 180 = ₹ 570

20. (a) Total cost of 45 kgs grapes from Hoshiarpur = 45 × 190 = ₹ 8550

After discount 4% Ravinder paid = 8550 −

$\dfrac{8550 \times 4}{100} = ₹ 8208$

21. (c) Cost of 1 kg apples from Ropar :

Cost of 1kg grapes from chandigarh

40 : 90

4 : 9 or $2^2 : 3^2$

22. (e) I. $\Rightarrow p^2 + 3p + 2p + 6 = 0$

$\Rightarrow p(p+3) + 2(p+3) = 0$

$\Rightarrow (p+3)(p+2) = 0$

$\Rightarrow p = -2 \text{ or } -3$

II. $\Rightarrow q^2 + q + 2q + 2 = 0$

$\Rightarrow q(q+1) + 2(q+1) = 0$

$\Rightarrow (q+1) + (q+2) = 0$

$\Rightarrow q = -1 \text{ or } -2$

Obviously $p \le q$

23. (d) I. $\Rightarrow p = \pm 2$

II. $\Rightarrow q^2 + 2q + 2q + 4 = 0$

$\Rightarrow q(q+2) + 2(q+2) = 0$

$\Rightarrow (q+2) + (q+2) = 0$

$\Rightarrow q = -2$

Obviously $p \ge q$

24. (b) I. $p^2 + p - 56 = 0$

$\Rightarrow p^2 + 8p - 7p - 56 = 0$

$\Rightarrow p(p+8) - 7(p+8) = 0$

$\Rightarrow (p+8)(p-7) = 0$

$\Rightarrow p = 7 \text{ or } -8$

II. $q^2 - 8q - 9q + 72 = 0$

$\Rightarrow q(q-8) - 9(q-8) = 0$

$\Rightarrow (q-8)(q-9) = 0$

$\Rightarrow q = 8 \text{ or } 9$

Obviously $p < q$

25. (a) We have,

$3p + 2q = 58$ …(i)

$4p + 4q = 92$

$\Rightarrow 2p + 2q = 46$ …(ii)

By (i), (ii) we get $p = 12$

From (i), $3 \times 12 + 2q = 58$

$\Rightarrow 2q = 58 - 36 = 22$

$\Rightarrow q = 11$

Hence, $p > q$

26. (e) As (i) U > X (ii) T > U

Hence T > X

As R ≥ T So R > X Iˢᵗ follows

As (i) W > T (ii) T > X

Combining, we get W > X IIⁿᵈ follows.

27. (a) As (i) H > G (ii) G ≥ I

Combining, we get H > I Iˢᵗ follows.

As (i) G ≥ I (ii) G > E

Combining, we get E = I but E > I not possible.

28. (a) As (i) A > F (ii) F > C

So A > C Iˢᵗ follows

29. (c) As (i) P ≥ O (ii) O ≥ N

So (i) P = N or (ii) P > N

(i) P = N

As (a) N = M (b) M ≥ L (c) L ≥ K

Combining, we get

(i) N = K   (ii) N > K

If N = K then P = K IIⁿᵈ follow

If N > K then P > K Iˢᵗ follow

(ii) Similarly if P > N

then also both conclusion can be establish.
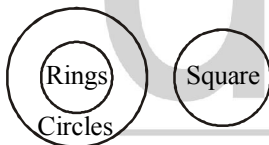
30. (b)   31. (d)   32. (c)

Sol. (33-37):

Formation of fig according to information given
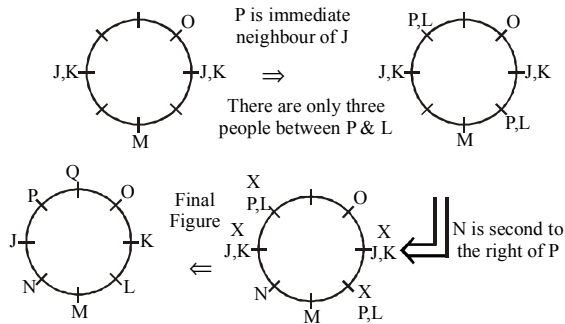
33. (b) N is immediate neighbour of J.
34. (a) 'K' is second to the left of 'Q' and 'M' is second to the left of 'K'.
35. (e) PQ, KL, MN, QO are in clockwise way and KO in anticlockwise way.
36. (c) Third to the left.
37. (b) Only two persons are sitting i.e. 'O' and 'Q'.

38. (d)
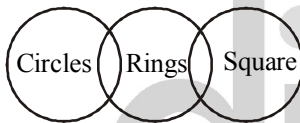
OR
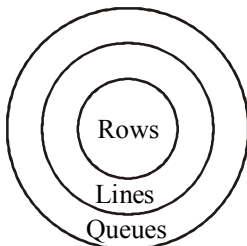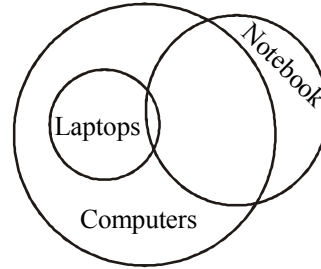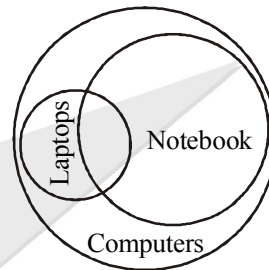

Conclusion-I : False
Conclusion-II : False

39. (e)

Conclusion-I : True
Conclusion-II : True
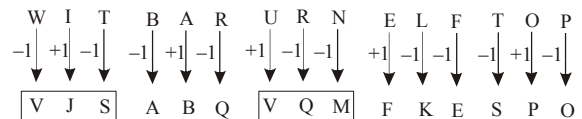
40. (a)

OR

Conclusion-I : True
Conclusion-II : False

Sol. (41–45) :
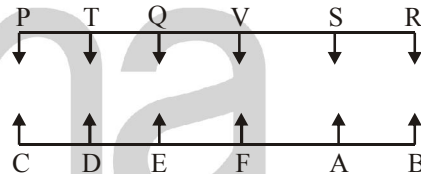
41. (c) 42. (b) 43. (c) 44. (a) 45. (d)
46. (b) After arranging –

ITW, ABR NRU EFL OPT

47. (e)
48. (c)

49. (b) 50. (d)
51. (a) The word 'exquisite' means extremely beautiful and delicate. Hence, 'dainty' is right option.

52. (b) Is Delhi the legacy of Nadir Shah's...ferocity.... or the melancholic love of Mirza Ghalib? The word 'ferocity' means the state or quality of being ferocious.

53. (b) "Qutbuddin Eibak created the Shisha Gumbad in the exquisite parks in Delhi" this statement is not true as the Shisha Gumbad was created by Lodis.

54. (e) The word 'skulduggery' means underhand, unscrupulous, or dishonest behaviour or activities. The words Trickery, Swindling, Machination, and Chicanery are similar in meaning to the word 'skulduggery'. Hence, option (e) is the right answer.

55. (d) The word 'Exaggerate' means overstate or magnify hence, 'understate' is the right opposite word. Options a, b, and c are similar in meaning to the given word 'exaggeration'.

56. (b) 'Brevity' is the correct option here.
The word 'brevity' means shortness of time. It is the right word to fill the blank.

57. (c) 'Nostalgic' is the correct option here and it means experiencing a longing for one's home during a period of absence from it.

58. (a) 'Jettison' is grammatically and contextually correct here.
The word 'jettison' means discarding or abdicating things.

59. (e) 'Whipped' is the correct option here and it means to run.
Hence, it the most suitable word to fill the blank.

60. (c) 'Petition' is the correct option here and it means a formal written request, typically one signed by many people, appealing to authority in respect of a particular cause.

61. (d) **Triggered-** caused by particular action, process, or situation

62. (e) **Terrible-** dreadful; causing harm and fear

63. (b) **Outlined-** a statement summarizing the important points of a text

64. (c) **Curb-** a restraint

65. (d) **Stern-** having a hardness and severity of nature or manner

66. (e) All correct

67. (a) Convergence

68. (a) Experienced

69. (d) Fortunes

70. (d) All correct

71. (b) 72. (c) 73. (e) 74. (d)

75. (b) Replace *would write* with *writes*.

76. (b) 77. (d) 78. (c) 79. (a)

80. (b) Team of NTPC Limited, the Central PSU under Ministry of Power, has won the All India Management Association Chanakya (Business Simulation Game) National Management Games 2020.

81. (c) 82. (d) 83. (b) 84. (a) 85. (d)

86. (d) 87. (c) 88. (b)

89. (c) The government of India has extended the term of Central Board of Direct Taxes (CBDT) chairman Pramod Chandra Mody by six months.

90. (a) A 3-member committee headed by Lt. Gen. Shekatkar (retired) has been set up to review the effective utilisation of the Armed Forces Head-quarters Civil Services (AFHQ CS) cadre.

91. (d) To promote the culture of cycling in the country, the Cycling Federation of India (CFI) will host the first-ever Cycling Summit in 2021.

92. (d) Bollywood Filmmaker, Karan Johar has authored a book titled "The Big Thoughts of Little Luv".

93. (b) IIT Bombay students have launched a free-of-cost mobile scanner application "AIR Scanner".

94. (a) The Cycling Federation of India (CFI) will host the Cycling Summit in 2021 in Delhi, Mumbai, and Bangalore.

95. (d) Mercedes driver, Lewis Hamilton has won the Formula One Belgian Grand Prix 2020.

96. (a) India has withdrawn its participation from the multilateral Military Exercise "Kavkaz 2020" scheduled to be held in Russia from 15th to 26th September 2020.

97. (b) According to the latest estimates of Gross Domestic Product (GDP), the Indian economy has experienced a contraction of 23.9% in the first quarter (April-June) of 2020-21.

98. (d) Prime Minister Narendra Modi has made the announcement that the month of september will be observed as "Nutrition Month".

99. (a) India has withdrawn its participation from the multilateral Military Exercise "Kavkaz 2020" scheduled to be held in Russia from 15th to 26th September 2020.

100. (d) World's Largest Solar Tree has been developed by the CSIR-CMERI and has been installed at the Residential Colony of CSIR-CMERI in Durgapur, West Bengal.