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CONDUCTED BY NAVODAYA VIDYALAYA SAMITI

JAWAHAR NAVODAYA VIDYALAYA

CLASS 6th Entrance Exam



List of Papers

Year	Papers	Year	Papers
20 Jan. 2024	1	2021	1
4 Nov. 2023 (Hilly Areas)	1	2020	1
2023	1	2019	1
2022	1	2018	1

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Jawahar Navodaya Vidyalaya Entrance Exam

Class VI : Solved Paper, 2024

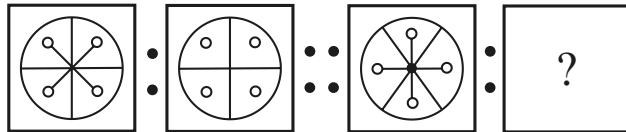
(Exam Date : 20-01-2024)

Section-I Mental Ability Test

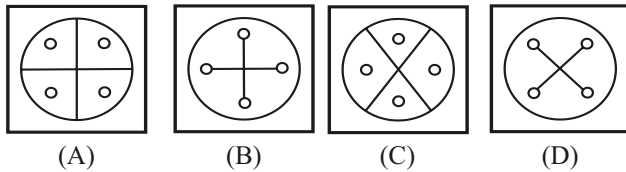
Direction (Q. No. 1 to 4)

In each question there are two sets of two question figures each. The second set has an interrogation mark (?). There exists a relationship between the first two question figures. Similar relationship should exist between the third and the fourth question figure. Select one of the answer figures which replaces the mark of interrogation.

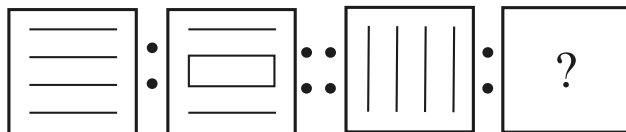
1. Question Figures :



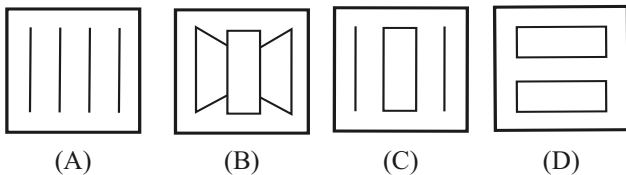
Answer Figures :



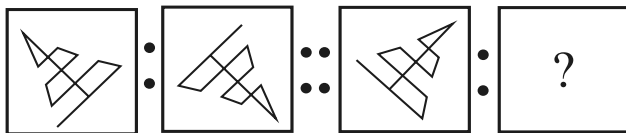
2. Question Figures :



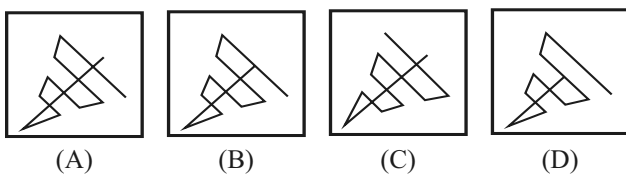
Answer Figures :



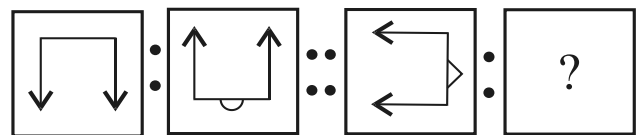
3. Question Figures :



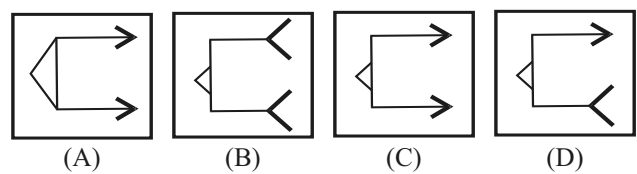
Answer Figures :



4. Question Figures :



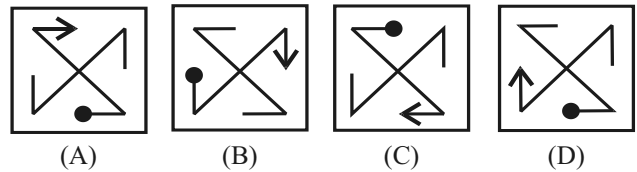
Answer Figures :



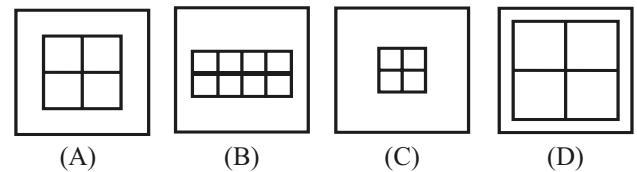
Direction (Q. No. 5 to 8)

In each question four figures (A), (B), (C) and (D) have been given. Of four figures, three figures are similar in some way and one figure is different. Select the figure which is different.

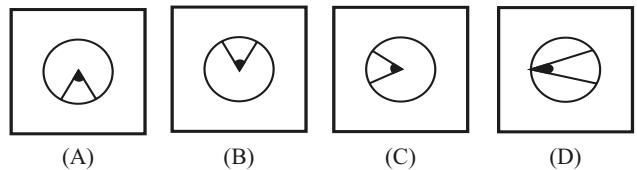
5.



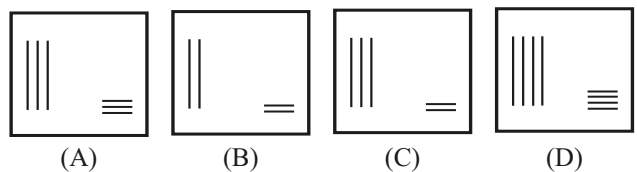
6.



7.



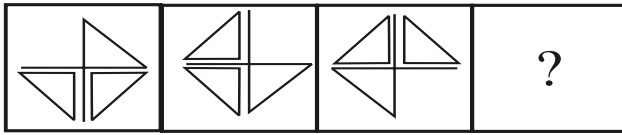
8.



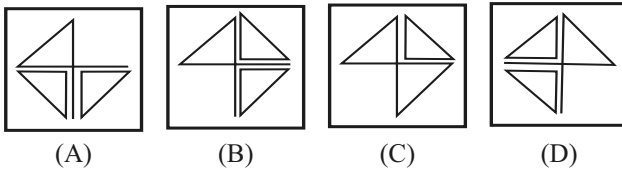
Direction (Q. No. 9 to 12)

In each question there are three question figures and the space for the fourth figure is left blank. The question figures are in a series. Find out one figure from among the Answer figures which occupies the blank space for the fourth figure and completes the series.

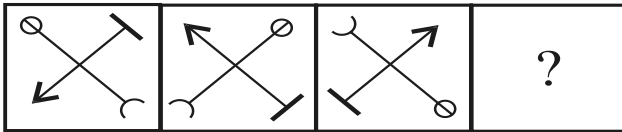
9. Question Figures :



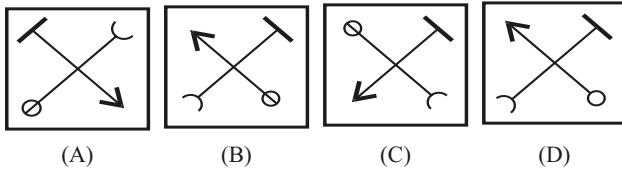
Answer Figures :



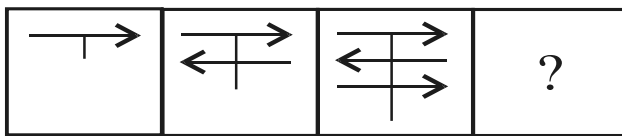
10. Question Figures :



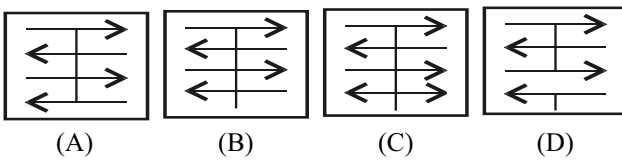
Answer Figures :



11. Question Figures :



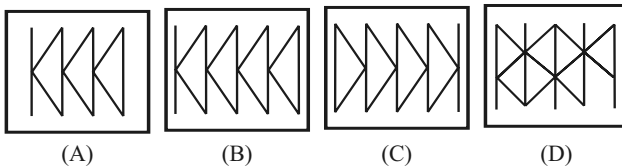
Answer Figures :



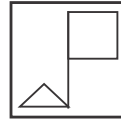
12. Question Figures :



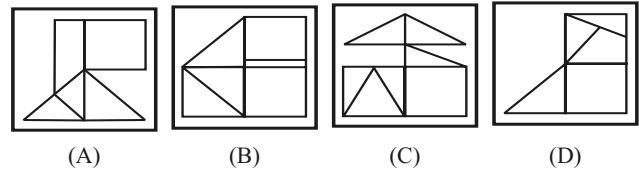
Answer Figures :



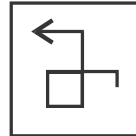
13. Question Figure :



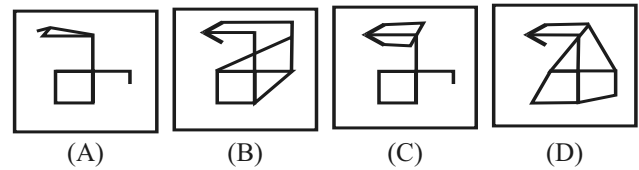
Answer Figures :



14. Question Figure :



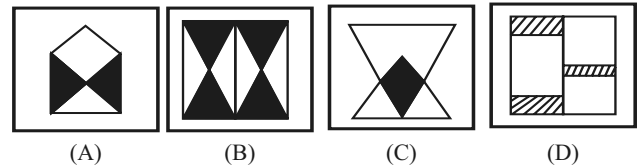
Answer Figures :



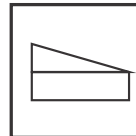
15. Question Figure :



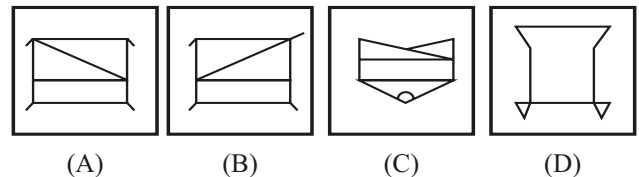
Answer Figures :



16. Question Figure :



Answer Figures :



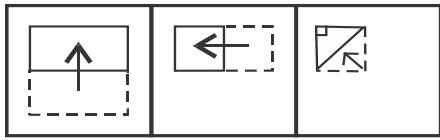
Direction (Q. No. 17 to 20)

In each question a piece of paper is folded and punched as shown in the question above. Below four answer figures marked (A), (B), (C) and (D) are given. The answer figure which indicates how the paper will appear when opened (unfolded).

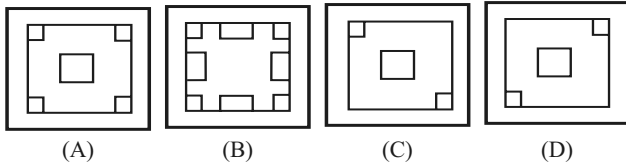
Direction (Q. No. 13 to 16)

In each question, figure is given and four answer figures (A), (B), (C) and (D) are given below. Select the answer figure in which the question embedded.

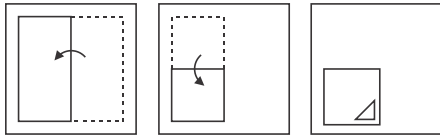
17. Question Figures :



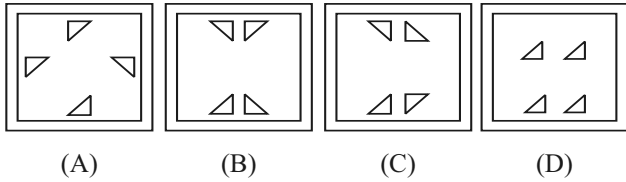
Answer Figures :



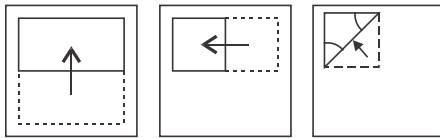
18. Question Figures :



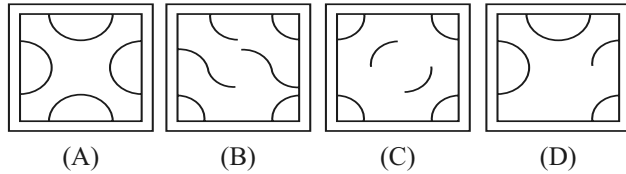
Answer Figures :



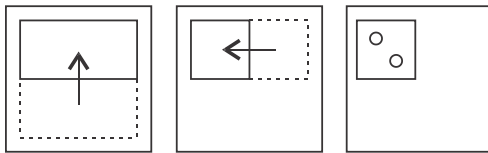
19. Question Figures :



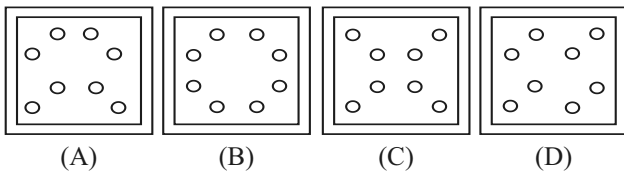
Answer Figures :



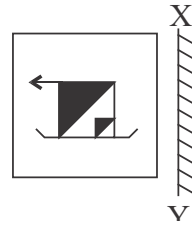
20. Question Figures :



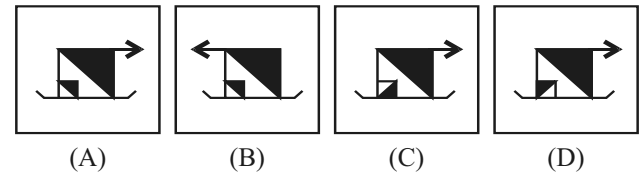
Answer Figures :



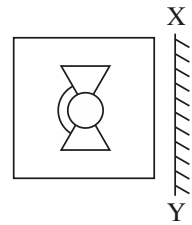
21. Question Figure :



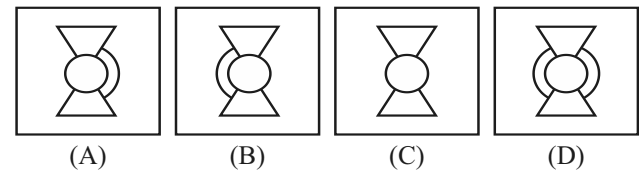
Answer Figures :



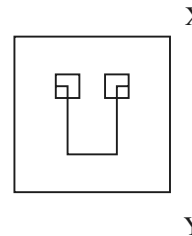
22. Question Figure :



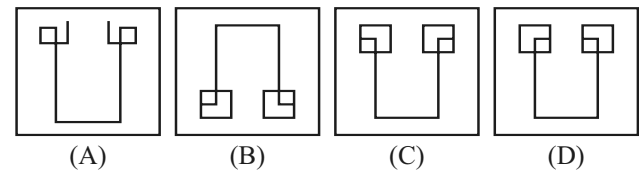
Answer Figures :



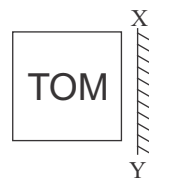
23. Question Figure :



Answer Figures :



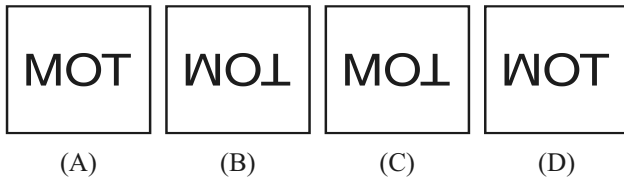
24. Question Figure :



Direction (Q. No. 21 to 24)

In each question there is a question figure on the above and four answer figures marked (A), (B), (C) and (D) are given below. Select the answer figure which is exactly the mirror image of the question figure when the mirror is held at XY.

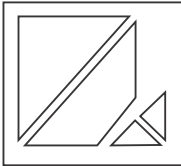
Answer Figures :



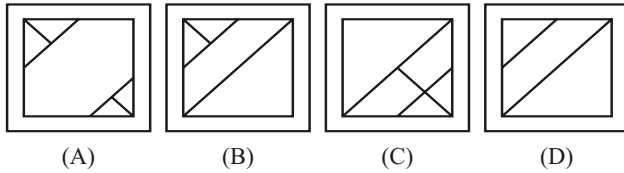
Direction (Q. No. 25 to 28)

In each question, question figure is given on the above and four answer figures marked (A), (B), (C) and (D) are given below. Select the answer figure which can be formed from the cut-out pieces given in the question figure.

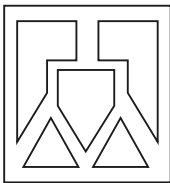
25. Question Figure :



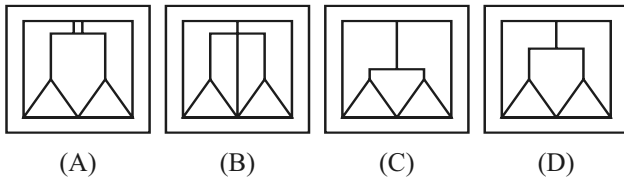
Answer Figures :



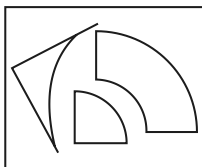
26. Question Figure :



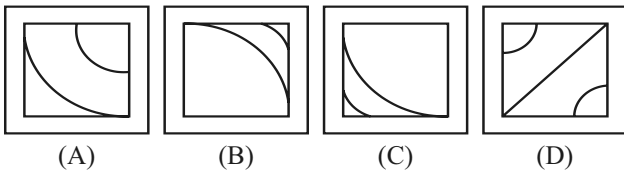
Answer Figures :



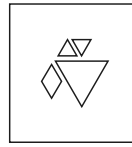
27. Question Figure :



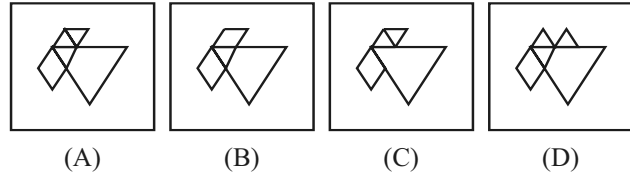
Answer Figures :



28. Question Figure :



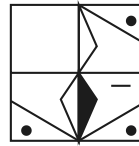
Answer Figures :



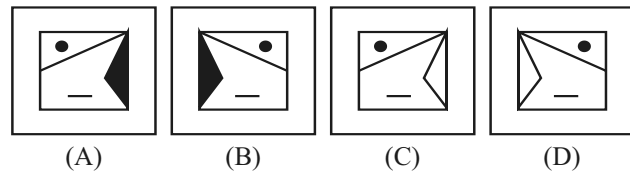
Direction (Q. No. 29 to 32)

In each question there is a question figure on the above, a part of which missing. Observe the answer figures (A), (B), (C) and (D) and find out the answer figure, without changing the direction, fits in the missing part of the question figure in order to complete the pattern in the question figure.

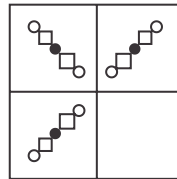
29. Question Figure :



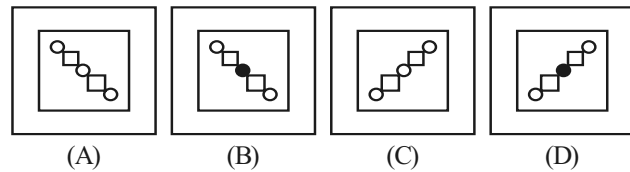
Answer Figures :



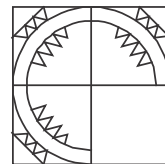
30. Question Figure :



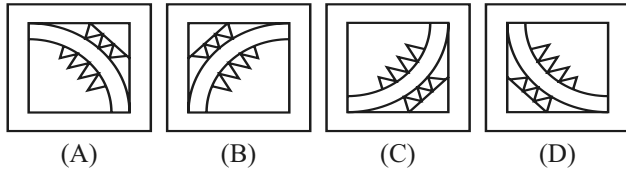
Answer Figures :



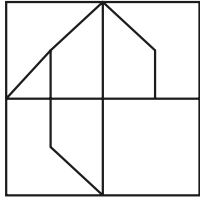
31. Question Figure :



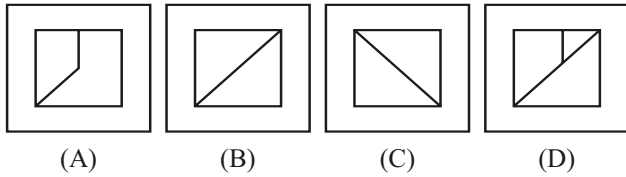
Answer Figures :



32. Question Figure :



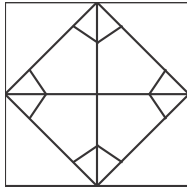
Answer Figures :



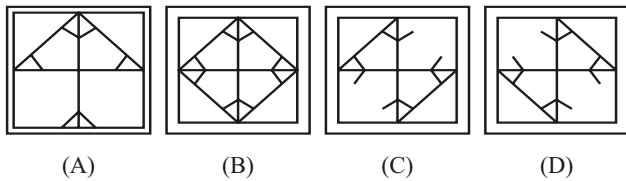
Direction (Q. No. 33 to 36)

In each question, question figure is given on the above side and four answer figures marked (A), (B), (C) and (D) are given below side. Select the answer figure which is exactly the same as the question figure.

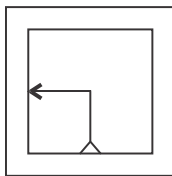
33. Question Figure :



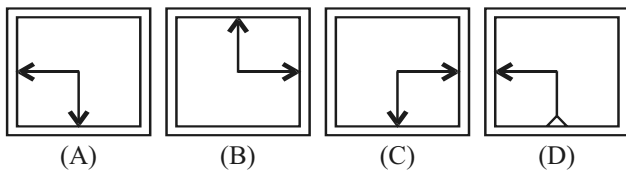
Answer Figures :



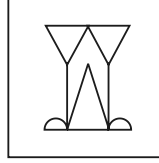
34. Question Figure :



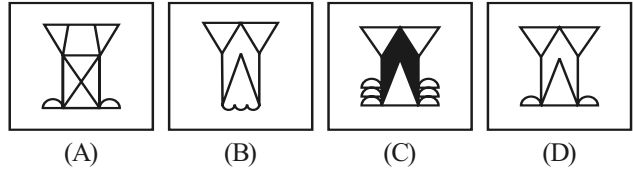
Answer Figures :



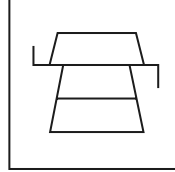
35. Question Figure :



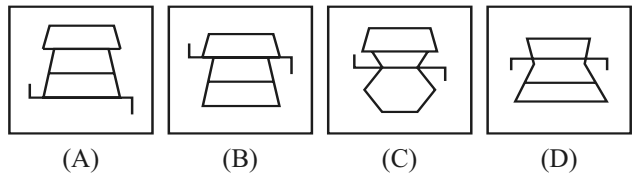
Answer Figures :



36. Question Figure :



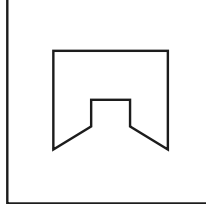
Answer Figures :



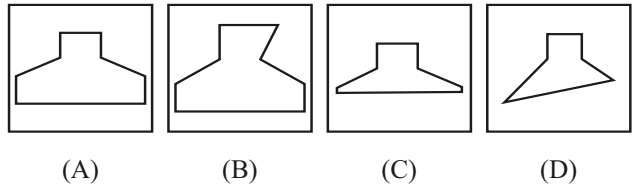
Direction (Q. No. 37 to 40)

In each question one part of a geometrical figure (Triangle, Square, Circle) is on the above side as question figure and the other one is among the four answer figures (A), (B), (C) and (D) on the below side. Find the figure that completes the geometrical figure.

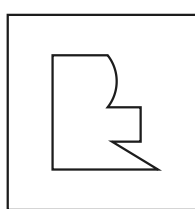
37. Question Figure :



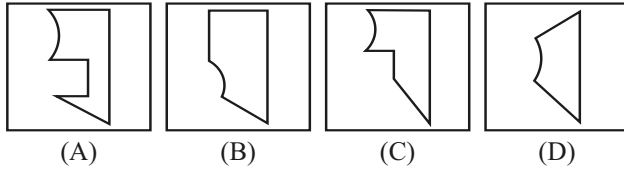
Answer Figures :



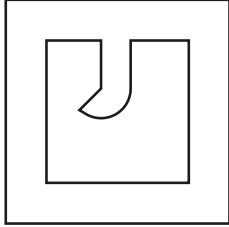
38. Question Figure :



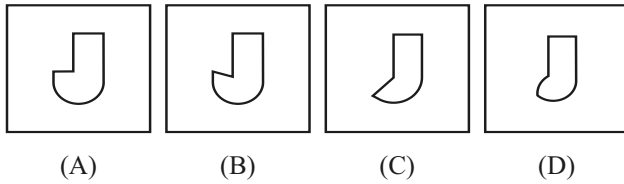
Answer Figures :



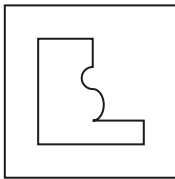
39. Question Figure :



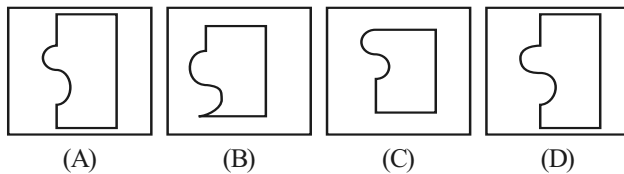
Answer Figures :



40. Question Figure :



Answer Figures :

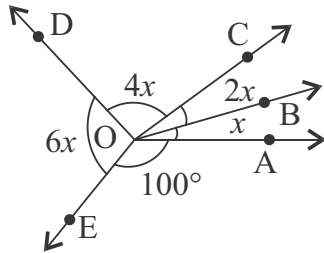


Section-II Arithmetic Test

41. 30009 is same as :
- (A) 30 ten thousands and 9 tens
 (B) 30 thousands and 9 hundreds
 (C) 3 ten thousands and 9 ones
 (D) 3 ten thousands and 9 tens
42. Sumit weighs 107 kg and Sanjay weighs 82 kg. The difference of their weight if the weight of each is rounded off to the nearest tens is :
- (A) 30 kg (B) 100 kg
 (C) 40 kg (D) 20 kg
43. The sum of the digits of a number is subtracted from the number. The resulting number is always divisible by :
- (A) 2 (B) 7
 (C) 5 (D) 9
44. The product of the greatest 3-digit number and the least number of 3-digit which can be formed using digits 9, 6 and 0 is :
- (A) 66240 (B) 999000
 (C) 584640 (D) 869760
45. If we write all the number from 1 to 100, the number of time the digit 9 occurs is :
- (A) 19 (B) 20
 (C) 21 (D) 23
46. Conversion of $31\frac{7}{16}$ into decimal is :
- (A) 314.375 (B) 3.14375
 (C) 31.4375 (D) 31.475
47. A fraction remains the same or equivalent if :
- (A) the same number is added to the numerator and the denominator.
 (B) the same number is subtracted from the numerator and the denominator.
 (C) the numerator and the denominator are multiplied by the same number other than zero.
 (D) it is multiplied by its reciprocal.
48. The number of packets of sweets weighing $\frac{2}{3}$ kg each, that can be made from 30 kg of sweets is :
- (A) 20 (B) 30
 (C) 40 (D) 45
49. If $4392 \div 3.66 = 1200$, then $439.2 \div 36.6 =$ _____.
- (A) 12 (B) 0.12
 (C) 1.02 (D) 1.2
50. The simplification of $5\frac{3}{8} \times 8\frac{1}{8} - 3\frac{1}{8} \times 5\frac{5}{8}$ gives approximately :
- (A) 25 (B) 26
 (C) 27 (D) 30
51. The profit earned in selling an article for ₹ 2,540 is equal to the loss incurred in selling at ₹ 1,850. The cost price of the article is :
- (A) ₹ 2,095 (B) ₹ 2,195
 (C) ₹ 2,010 (D) ₹ 2,020
52. The cost price of a book is ₹ 100. A shopkeeper sells 3 such books for ₹ 275. What is his profit or loss ?
- (A) Profit of ₹ 175 (B) Profit of ₹ 25
 (C) Loss of ₹ 175 (D) Loss of ₹ 25
53. A machine can print 12 pages in a minute. How long will the machine take to print 5760 pages ?
- (A) 7 hours (B) 8 hours
 (C) $8\frac{1}{2}$ hours (D) 9 hours
54. If $\frac{a}{b}$ is a fraction, where $a = b - 3$ and $\frac{a+10}{b} - \frac{a}{b} = \frac{10}{7}$, then $\frac{a}{b}$ is :

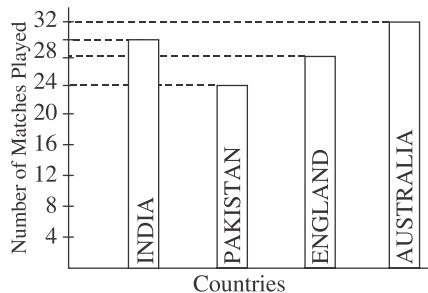
- (A) $\frac{8}{11}$ (B) $\frac{2}{5}$
 (C) $\frac{4}{7}$ (D) $\frac{5}{8}$

55. In the figure, the measures of $\angle AOB$, $\angle BOC$, $\angle COD$ and $\angle DOE$ respectively are :



- (A) $20^\circ, 40^\circ, 80^\circ, 120^\circ$ (B) $30^\circ, 30^\circ, 70^\circ, 130^\circ$
 (C) $40^\circ, 30^\circ, 120^\circ, 70^\circ$ (D) $50^\circ, 20^\circ, 80^\circ, 110^\circ$
56. If the sum of two angles is an obtuse angle, then which of the following is **not** possible ?
 (A) One right angle and one acute angle
 (B) One obtuse angle and one acute angle
 (C) Two acute angles
 (D) Two right angles
57. If each side of a square is decreased to one-third of itself, then the area of the square will be decreased to :
 (A) one-seventh (B) one-third
 (C) one-eighth (D) one-ninth
58. The area of a rectangular plot is 616 sq. m and its breadth is 22m. The cost of fencing the plot at the rate of ₹ 7.50 per metre is :
 (A) ₹ 1,500 (B) ₹ 375
 (C) ₹ 4,620 (D) ₹ 750
59. The perimeter of a square is equal to the perimeter of a rectangle of length 17 m and breadth 11 m. The area of the square (in m^2) is :
 (A) 196 (B) 14
 (C) 187 (D) 121
60. For given question, four probable answers as (A), (B), (C) and (D) are given. Only one out of these is correct. Choose the correct answer.

The given bar chart shows the number of matches played by cricket teams of different countries in a year. How many more matches were played by Australia than Pakistan ?



- (A) 8 (B) 2
 (C) 4 (D) 6

Section-III Language Test

Direction (Q. No. 61 to 80)

There are four passages in this Section. Each passage is followed by five questions. Read each passage carefully and answer the questions that follow. For each question, four probable answers (A), (B), (C) and (D) are given. Only one out of these is correct. Choose the correct answer.

Passage - 1

Humility is a great virtue. It means being humble, meek and modest. It is the opposite of being proud. It is the quality of keeping oneself under control. Such a person is not stubborn. He is open to the advice of others and learns from their experience. He is the master of himself. He does not become annoyed easily. A humble person admits his mistakes and shortcomings with a smile. He is thoughtful because he is not self-centred.

61. Humility is a great _____.
 (A) quality (B) evil
 (C) sin (D) fault
62. Humility means _____.
 (A) being arrogant (B) being humble
 (C) being cruel (D) being unkind
63. A humble person learns from _____.
 (A) others' experience
 (B) his own experience
 (C) teachers' experience
 (D) Parents' experience
64. 'Proud' is the synonym of _____.
 (A) humble (B) meek
 (C) modest (D) arrogant
65. 'Stubborn' is the antonym of _____.
 (A) adamant (B) hard
 (C) agreeable (D) wilful

Passage - 2

Scientists and doctors warn us about the dangerous effects of TV on various systems and organs of our body. Everyone on an average watches TV for three to four hours daily, which weakens the eyesight. Children are the most affected because they watch TV for a long time, which is more harmful. This has also resulted in a general complaint of headache.

Watching TV for long hours is harmful for our physical health and mental growth. The high-pitched sound of dance, music and fights presented in various programmes may result in deafness. Watching TV continuously in one posture also causes joint pain, backache and muscle pain. Eating while watching TV makes our digestive system sluggish and causes obesity. Scenes of horror and violence cause psychological problems among the youth.

66. Watching TV continuously for long hours does **not** affect our _____.
 (A) mental health (B) height
 (C) digestion (D) weight

67. 'Scenes of horror and violence cause psychological problems among the youth.' The 'psychological problems' refer to the problems connected with _____.
 (A) mind
 (B) heart
 (C) digestive system
 (D) hearing ability
68. Watching TV mostly affects the eyesight of children because _____.
 (A) they have sluggish digestive system
 (B) they sit in wrong postures while watching TV
 (C) they watch TV from close
 (D) they eat while watching TV
69. The synonym of the word 'sluggish' is _____.
 (A) energetic (B) busy
 (C) slow (D) brisk
70. The antonym of the word 'harmful' as used in the passage is _____.
 (A) injurious (B) hopeless
 (C) useful (D) dangerous

Passage - 3

You might have heard about this great environmentalist and social worker, Sunderlal Bahuguna. He was born in a small village of Uttarakhand. His village was situated in the upper hills surrounded by green forests. The forests were covered with precious trees. Many sports goods manufacturing companies started cutting trees for making goods. It resulted in devastating floods in the adjoining areas. People faced many problems due to floods. They understood the importance of forests in their lives.

71. Sunderlal Bahuguna was a great _____.
 (A) environmentalist (B) scientist
 (C) teacher (D) doctor
72. His village was surrounded by _____.
 (A) dark forests (B) brown forests
 (C) green forests (D) dry forests
73. Cutting forests resulted in _____.
 (A) devastating floods
 (B) flood-gates
 (C) droughts
 (D) flood-lights

74. 'Sunderlal Bahuguna' is a/an _____ noun.
 (A) common (B) collective
 (C) abstract (D) proper
75. 'Precious' is the synonym of _____.
 (A) hateful (B) loathsome
 (C) priceless (D) useless

Passage - 4

Expressing gratitude is a great virtue which every human being should possess. It is a feeling whereby we express our thanks to someone. We can express our gratitude in various forms. We can be grateful in our thoughts, words, and actions. When we say 'Thank you' it means we are grateful. We should be grateful to everyone who is helpful to us. We should be grateful to God because 'He' has blessed us with many good things. We should say thanks to Him from the bottom of our heart.

76. 'Thank you' means that we are _____.
 (A) superior (B) sad
 (C) miserable (D) grateful
77. What is a great virtue?
 (A) Expressing cruelty
 (B) Expressing gratitude
 (C) Expressing sorrow
 (D) Expressing misery
78. One can be grateful in one's _____ also.
 (A) virtues (B) duties
 (C) thoughts (D) earnings
79. 'Helpful' is a/an _____.
 (A) Noun (B) Pronoun
 (C) Verb (D) Adjective
80. 'Virtue' means _____.
 (A) quality (B) heroism
 (C) evil (D) peace

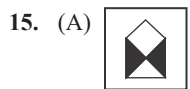
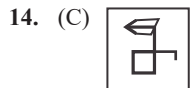
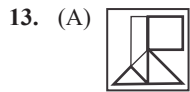
Solutions

1. (C) As, from first to second figure, the lines connected with circle are removed. Similarly, in third to fourth figure, figure of option (C) will be obtained.
2. (C) Form first to second figure, second and third lines from top join together to form a rectangle. Similarly, from third to fourth figure, second and third lines from left to make a rectangle. So the figure of option (C) will be obtained.
3. (B) The first figure is rotated 180° clockwise to form the second figure. Similarly, the third figure is rotated 180° clockwise to form the figure of option (B).
4. (C) The first figure is rotated 180° to form the second figure. Similarly, the third figure is rotated 180° to form the figure of option (C).
5. (D) In all other figures except the figure of option (D), arrow and (●) pin are attached the same line segment. Hence, option (D) is different.
6. (B) All the other figures except option (B), are divided in four equal parts.
7. (D) All the other figures except option (D) are same.
8. (C) In all the other figures except option (C), the number of horizontal and vertical line segments is same, while in option (C), the number of both is unequal.
9. (B) Figure is rotating 90° clockwise in each next figure. So, the next figure will be option (B).

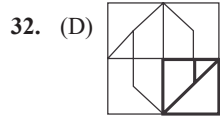
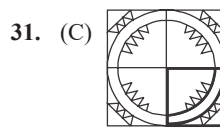
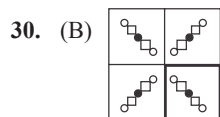
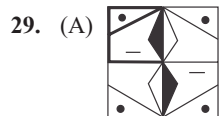
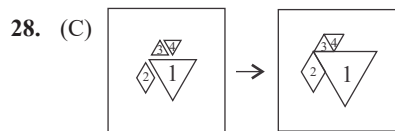
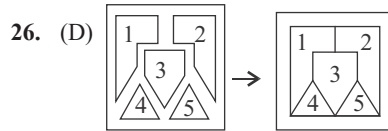
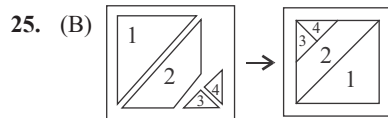
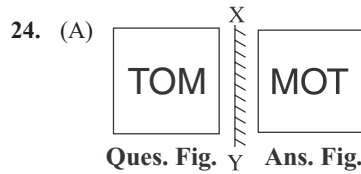
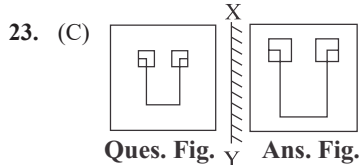
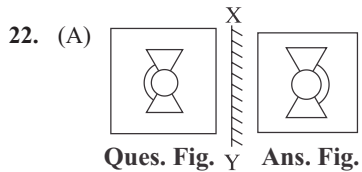
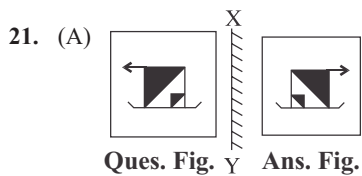
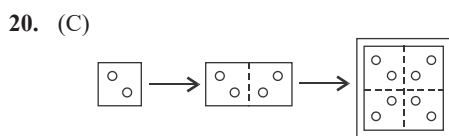
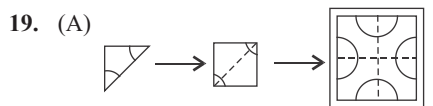
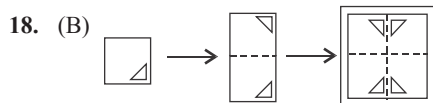
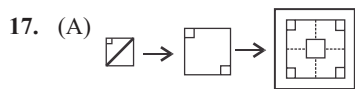
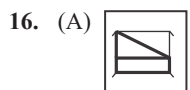
10. (A) The figure is rotating 90° clockwise in each next figure. So, the next figure will be option (A).

11. (B) The arrow is joined in opposite direction in each next figure. So, the next figure will be option (B).

12. (B) A triangle is joined from right side in each next figure. So, the next figure will be option (B).



Question figure is embedded in figure of option (A).

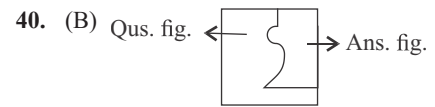
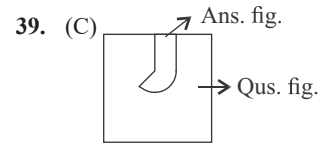
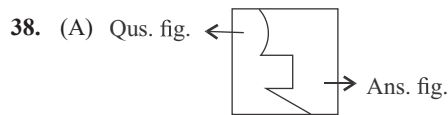
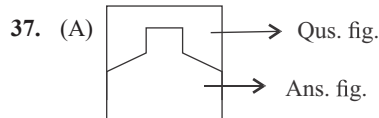


33. (B) The figure of option (B) is similar to question figure.

34. (D) The figure of option (D) is similar to question figure.

35. (D) The figure of option (D) is similar to question figure.

36. (B) The figure of option (B) is similar to question figure.



41. (C) 30009
 3×10 thousand + 9 units
 3 ten thousand + 9 units
 Hence, option (C) is correct.

42. (A) Given
 weight of Sumit = 107 kg
 weight of rounded off to the nearest tens Sumit = 100 kg
 And weight of Sanjay = 82 kg
 weight of rounded off to the nearest tens of Sanjay = 80 kg
 Difference weight of rounded off to the nearest tens of Sumit and Sanjay
 $= 110 - 80$
 $= 30$ kg

43. (D) Let, number = $10x + y$
 Sum of digits = $x + y$
 ATQ,
 Number - Sum of digits
 $= (10x + y) - (x + y)$
 $= 10x + y - x - y$
 $= 9x$
 Factor of $9x$ are 9 and x
 Number $9x$ is always divisible by 9.

44. (C) Largest 3 digits number formed form digits 9, 6 and 0 = 960
 Smallest 3 digits number formed from digits 9, 6 and 0 = 609
 Product of smallest and largest number = 960×609
 $= 5,84,640$
 Hence, option (C) is correct.

45. (B) Number from 1 to 100
 Number from 1 to 10 in 9 digit = 1 time
 Numbers from 11 to 20 in 9 digit = 1 time
 Numbers from 21 to 30 in 9 digit = 1 time
 Numbers from 31 to 40 in 9 digit = 1 time
 Numbers from 41 to 50 in 9 digit = 1 time
 Numbers from 51 to 60 in 9 digit = 1 time
 Numbers from 61 to 70 in 9 digit

= 1 time
 Numbers from 71 to 80 in 9 digit
 = 1 time
 Numbers from 81 to 90 in 9 digit
 = 1 time
 Numbers from 91 to 100 in 9 digit
 = $\frac{10 \text{ times}}{20 \text{ times}}$

46. (C) $31\frac{7}{16}$
 $= 31 + \frac{7}{16}$
 $= 31 + 0.4375$
 $= 31.4375$

Hence, option (C) is correct.

47. (C) A fraction can be used to compare the numerator and denominator are multiplied or divided by the same number.

- To compare fractions, add and subtract fractions, and express fraction in their simplest form.
 - Other possible answers to fill in the blanks.
 - Same changes should be made in both numerator and denominator.
- Hence, option (C) is correct.

48. (D) The number of packets of sweets

$$= \frac{30}{\frac{2}{3}}$$

$$= \frac{30}{2} \times 3$$

$$= 15 \times 3$$

$$= 45$$

Hence, option (D) is correct.

49. (A) $4392 \div 3.66 = 1200$

$$\frac{4392}{3.66} = 1200$$

$$\frac{4392 \times 100 \times 10}{366 \times 10} = 1200$$

$$\frac{439.2}{36.6} \times 100 = 1200$$

$$\frac{439.2}{36.6} = \frac{1200}{100}$$

$$\frac{439.2}{36.6} = 12$$

Hence, option (A) is correct.

50. (B) $5\frac{3}{8} \times 8\frac{1}{8} - 3\frac{1}{8} \times 5\frac{5}{8}$
 $= \left(\frac{5 \times 8 + 3}{8}\right) \times \left(\frac{8 \times 8 + 1}{8}\right)$
 $\quad - \left(\frac{3 \times 8 + 1}{8}\right) \times \left(\frac{5 \times 8 + 5}{8}\right)$
 $= \frac{43}{8} \times \frac{65}{8} - \frac{25}{8} \times \frac{45}{8}$
 $= \frac{1}{8 \times 8} [43 \times 65 - 25 \times 45]$
 $= \frac{2795 - 1125}{8 \times 8}$
 $\Rightarrow \frac{1670}{64}$

$\Rightarrow 26.09$

$\cong 26$
 Hence, option (B) is correct.

51. (B) Profit = Selling Price – Cost Price
 Profit = ₹ 2540 – Cost Price ... (i)
 Again, Loss = Cost Price

– Selling Price
 Loss = Cost Price – ₹ 1850 ... (ii)
 ATQ, Profit = Loss
 ₹ 2540 – Cost Price
 $= \text{Cost Price} - ₹ 1850$
 $= \text{Cost Price} + \text{Cost Price} = ₹ 1850 + ₹ 2540$

$2 \text{ Cost Price} = ₹ 4390$

Cost Price = ₹ $\frac{4390}{2}$

Cost Price = ₹ 2195

Hence, Cost Price of an item is ₹ 2195.

52. (D) Cost Price of a book = ₹ 100

Cost Price of 3 books

$$= 3 \times ₹ 100$$

$$= ₹ 300$$

Selling Price of 3 books = ₹ 275

Loss = Cost Price – Selling Price

Loss = ₹ 300 – ₹ 275

Loss = ₹ 25

Hence, option (D) is correct.

53. (B) Time taken to print 12 pages

$$= 1 \text{ minute}$$

$$= \frac{1}{60} \text{ hour}$$

Time taken to print 1 page

$$= \frac{1}{60 \times 12}$$

$$= \frac{1}{720} \text{ hours}$$

Then, Time taken to print 50 pages

$$= 5760 \times \frac{1}{720} \text{ hours}$$

$$= 8 \text{ hours}$$

Hence, option (B) is correct.

54. (C) If $\frac{a}{b}$ is a fraction

and $a = b - 3$... (i)

$$\frac{a+10}{b} - \frac{a}{b} = \frac{10}{7} \quad \dots \text{(ii)}$$

Put the value of a in Eqn. (ii)

$$\frac{b-3+10}{b} - \frac{(b-3)}{b} = \frac{10}{7}$$

$$\frac{b+7}{b} - \frac{(b-3)}{b} = \frac{10}{7}$$

$$\frac{b+7-b+3}{b} = \frac{10}{7}$$

$$\frac{10}{b} = \frac{10}{7}$$

$$b = \frac{10 \times 7}{10}$$

$$b = 7$$

From Eqn. (i),

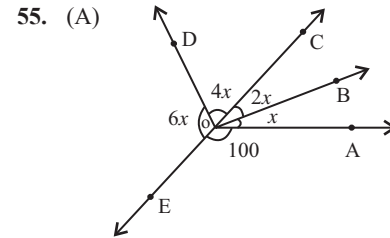
$$a = b - 3$$

$$a = 7 - 3$$

$$a = 4$$

then $\frac{a}{b} = \frac{4}{7}$

Hence, option (C) is correct.



In figure,

$$\angle AOB = x$$

$$\angle BOC = 2x$$

$$\angle COD = 4x$$

$$\text{and } \angle DOE = 6x$$

$$\angle AOB + \angle BOC + \angle COD +$$

$$\angle DOE + \angle EOA = 360^\circ$$

$$x + 2x + 4x + 6x + 100 = 360^\circ$$

$$13x = 360^\circ - 100^\circ$$

$$x = \frac{260^\circ}{13}$$

$$x = 20^\circ$$

then $\angle AOB = x = 20^\circ$

$$\angle BOC = 2x = 2 \times 20^\circ = 40^\circ$$

$$\angle COD = 4x = 4 \times 20^\circ = 80^\circ$$

$$\angle DOE = 6x = 6 \times 20^\circ = 120^\circ$$

Hence, option (A) is correct.

56. (D) Obtuse angles are those angles whose measure is more than 90° but less than 180°

Sum of two right angle

$$= 90^\circ + 90^\circ$$

$$= 180^\circ$$

Hence, sum of two right angles cannot be an obtuse angle.

57. (D) Let side of square = a units

Area of square = (side)²

$$= a^2 \text{ units}^2$$

If each side of a square is decreased to one-third

$$\text{New side of square} = \frac{a}{3} \text{ units}$$

Area of Square = (side)²

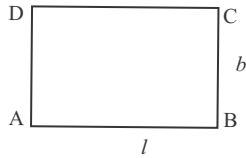
$$= \left(\frac{a}{3}\right)^2$$

$$= \frac{a^2}{9} \text{ units}^2$$

The area of the square will be decreased to one-ninth

Hence, option (D) is correct.

58. (D) Given,



Breadth of Rectangular Park
= 22 Meter.

$$\begin{aligned} \text{Area of rectangular Park} &= l \times b \\ 616 &= l \times 22 \\ l &= \frac{616}{22} \\ l &= 28 \text{ m.} \end{aligned}$$

$$\begin{aligned} \text{Perimeter of rectangular Park} &= 2(l + b) \\ &= 2(22 + 28) \\ &= 2 \times 50 \\ &= 100 \text{ meter} \end{aligned}$$

$$\begin{aligned} \text{The cost of fencing the plot at the} & \\ \text{rate of ₹ 7.50 per meter} &= 100 \times 7.50 \\ &= ₹ 750 \end{aligned}$$

59. (A) Given,

Length of rectangular = 17 m.

And breadth = 11 m.

ATQ, Perimeter of square = Perimeter of rectangle

$$\begin{aligned} 4(\text{side}) &= 2(l + b) \\ 2(\text{side}) &= (l + b) \\ \text{side} &= \frac{17 + 11}{2} \end{aligned}$$

$$\text{side} = \frac{28}{2} = 14 \text{ m.}$$

$$\begin{aligned} \therefore \text{Area of square} &= (\text{side})^2 \\ &= (14)^2 \\ &= 196 \text{ sq. meter} \end{aligned}$$

Hence, option (A) is correct.

60. (A) Number of matches played by Australia team = 32
Number of matches played by Pakistan team = 24
Number of more matches played by Australian team than played by Pakistan team = 32 - 24 = 8
Hence, option (A) is correct.

61. (A) The word quality is an appropriate word to fill in the blank. Humility means the quality of not being proud because you are aware of your bad qualities.

62. (B) Humility means being humble. Humility's synonyms are – humbleness, modesty, politeness etc.

63. (A) According to the passage, a humble person learns from others' experience. See the 6th sentence of the given passage.

64. (D) 'Proud' is the synonym of 'arrogant'. Other words – humble, meek, modest are the antonyms of proud. Proud means having or showing respect for yourself.

65. (C) 'Stubborn' is the antonym of 'agreeable'. The word 'Stubborn' means one who is determined to do what he wants & refuses to do anything else.

66. (B) According to the passage, watching T.V. continuously for long hours affects our physical and mental health, digestion and weight but does not affect our height. So option (B) is correct.

67. (A) The psychological problems refer to the problems that are connected with mind. Psychological means the scientific study of the way the human mind works & how it influences behaviour.

68. (C) According to the passage watching TV mostly affects the eyesight of children because they watch TV from a close range which is more harmful to them.

69. (C) The word 'slow' is the synonym of 'sluggish'.

- Sluggish means moving or operating more slowly than usual and with less energy or power.

- Energetic means very active physically or mentally or have a lot of energy.

- Brisk means quick, energetic and active.

70. (C) The antonym of the word 'harmful' is useful. Harmful means harassing, deleterious, hurtful etc.

71. (A) According to the passage it can be said that Sunderlal Bahuguna was a great environmentalist and social worker.

72. (C) The author says that Sunderlal Bahuguna's village was situated in the upper hills of Uttarakhand and surrounded by green forests.

73. (A) According to the passage, cutting floods resulted in devastating floods in adjoining areas. See the lines— Many sports goods _____ the adjoining areas.

74. (D) Sunderlal Bahuguna is a proper noun.

- A proper noun is the name of some particular person or place.

- Proper means 'One's own' Hence, a proper name is a person's own name. So, option (D) is correct.

75. (C) 'Precious' is the synonym of 'Priceless'.

- 'Precious' means of great value because of being rare, expensive, or important, of very great value or worth.

76. (D) 'grateful' is an appropriate word to fill in the blank.

- Grateful means feeling or showing thanks to somebody.

77. (B) According to the passage, expressing gratitude is a great virtue. See the first sentence of the given.

78. (C) According to the passage, one can be grateful in one's thoughts, words and actions. So, option (C) is correct.

79. (D) The word 'Helpful' is an adjective. Helpful means giving or ready to give help, willing to help.

- An adjective is a word used to add something to the meaning of a noun.

80. (A) The word 'Virtue' means behaviour which shows high moral standards or a good quality or habit. So, option (A) is correct.

□□