

$$\Rightarrow C = \frac{510 \times 12}{17} = \text{Rs. } 360$$

$$\therefore B = \frac{C}{4} = \frac{360}{4} = \text{Rs. } 90$$

$$A = \frac{C}{6} = \frac{360}{6} = \text{Rs. } 60$$

45. (2) Weight of new person

$$= (65 + 8 \times 2.5) \text{ kg}$$

$$= (65 + 20) \text{ kg}$$

$$= 85 \text{ kg}$$

46. (4) According to the question,

$$x + y = (x^2 + y^2) \times \frac{1}{5}$$

$$\text{Again, } x + y = (x^2 - y^2) \times \frac{1}{4}$$

$$\therefore \frac{x^2 + y^2}{5} = \frac{x^2 - y^2}{4}$$

$$\Rightarrow 5x^2 - 5y^2 = 4x^2 + 4y^2$$

$$\Rightarrow 5x^2 - 4x^2 = 5y^2 + 4y^2$$

$$\Rightarrow x^2 = 9y^2$$

$$\Rightarrow x = 3y$$

$$\therefore \frac{x+y}{x^2} = \frac{x^2+y^2}{5x^2}$$

$$= \frac{9y^2+y^2}{5 \times 9y^2} = \frac{10y^2}{45y^2} = \frac{2}{9}$$

47. (2) S.P. of TV set

$$= \text{Rs. } \left(\frac{120}{20} \times 750 \right)$$

$$= \text{Rs. } 4500$$

If the marked price be Rs. x , then

$$\frac{x \times 90}{100} = 4500$$

$$\Rightarrow x = \frac{4500 \times 100}{90}$$

$$= \text{Rs. } 5000$$

48. (1) Principal = Rs. (60000 - 10000)

$$= \text{Rs. } 50000$$

$$\therefore \text{S.I.} = \frac{50000 \times 15 \times 2}{100}$$

$$= \text{Rs. } 15000$$

49. (4) Rate downstream

$$= \left(\frac{750}{15} \right) \text{ m/minute}$$

$$= 100 \text{ m/minute}$$

$$= \frac{100 \times 60}{1000} \text{ kmph} = 6 \text{ kmph}$$

Rate upstream

$$= \left(\frac{750}{600} \times \frac{18}{5} \right) \text{ kmph}$$

$$= 4.5 \text{ kmph}$$

\therefore Rowing speed in still water

$$= \frac{1}{2} (6 + 4.5) = \frac{10.5}{2}$$

$$= 5.25 \text{ kmph}$$

50. (3) Net selling price of scooter.

$$= \text{Rs. } \left(18000 \times \frac{90}{100} \times \frac{95}{100} \times \frac{98}{100} \right)$$

$$= \text{Rs. } 15082.2$$

51. (4) Here, Present Tense i.e. is worth nothing should be used. It is a general statement.

52. (4) Here, past is evident. Hence, Past Simple i.e. was built in 1966 should be used.

53. (4) Here, period of time is evident. Hence, for two hours should be used.

54. (4) Put two and two together = to guess the truth from what you see, hear etc.

Look at the sentence :

He is inclined to put two and two together and make five.

57. (4) Might is used when showing that something is or was possible.

58. (2) Anticipate = to see what might happen in the future.

59. (1) The possessive case of one is one's.

60. (2) Noisily (Adverb) = extremely unpleasantly or offensively.

Quietly (Adverb) = with very little noise; peacefully.

61. (2) Admiration (Noun) = a feeling of respect and liking for somebody/something.

Contempt (Noun) = a feeling that something is without value and deserves no respect at all.

Look at the sentences :

He looked at him with contempt.

I have great admiration for him as a writer.

62. (4) Beautiful (Adjective) = having beauty; very good.

Ugly (Adjective) = unpleasant to look at; unattractive.

63. (1) Complacency (Noun) = a feeling of satisfaction with yourself.

64. (4) Compulsory (Adjective) = that must be done because of a law or rule; mandatory.

65. (4) Enthusiasm (Noun) = a strong feeling of excitement and interest in something.

66. (3) Enormous (Adjective) = extremely large, huge, immense.

Look at the sentence :

The problems facing the President are enormous.

67. (2) Inevitable (Adjective) = that you cannot avoid or prevent; unavoidable.

Look at the sentence :

It was an inevitable consequence of the decision.

68. (1) Drizzle (Verb) = to pour a small amount of liquid; dribble; sprinkle.

Look at the sentence :

When it is drizzling, it is raining lightly.

73. (3) Part and parcel = an essential part; an important part.

Look at the sentence :

Keeping the accounts is part and parcel of something.

74. (3) Kith and Kin = friends and relatives.

75. (4) Telling = showing effectively; having strong effect.

31. (3) C.P. of article = Rs. x (let)

According to the question,

$$x \times \frac{120}{100} = \frac{40 \times 90}{100}$$

$$\Rightarrow x = \frac{40 \times 90}{120} = \text{Rs. } 30$$

32. (1) Angles of $\triangle ABC$,

$$\therefore \angle A + \angle B + \angle C = 180^\circ$$

$$A : B : C = 3 : 4 : 5$$

$$\therefore \angle A = \frac{3}{12} \times 180^\circ = 45^\circ$$

$$\angle B = \frac{4}{12} \times 180^\circ = 60^\circ$$

$$\angle C = \frac{5}{12} \times 180^\circ = 75^\circ$$

33. (2) Area of the field with side 50 m = $50 \times 50 = 2500$ sq. metre

Area of the field of side 100 m

$$= 100 \times 100$$

$$= 10000 \text{ sq. metre}$$

$$\therefore 2500 \text{ sq. metre} = 750 \text{ kg.}$$

$$\therefore 10000 \text{ sq. metre}$$

$$= \frac{750}{2500} \times 10000 \text{ kg.}$$

$$= 3000 \text{ kg.}$$

34. (2) $1 + 2 + 3 + 4 + \dots + n$

$$= \frac{n(n+1)}{2}$$

$$\therefore 75 + 76 + \dots + 97$$

$$= (1 + 2 + 3 + \dots + 97)$$

$$- (1 + 2 + 3 + \dots + 74)$$

$$= \frac{97 \times 98}{2} - \frac{74 \times 75}{2}$$

$$= 4753 - 2775 = 1978$$

35. (1) Total height of 5 friends

$$= (6 \times 167 - 162) \text{ cm.}$$

$$= (1002 - 162) \text{ cm.}$$

$$= 840 \text{ cm.}$$

$$\therefore \text{Required average} = \frac{840}{5}$$

$$= 168 \text{ cm.}$$

36. (4) Expression = $\frac{5 + \sqrt{11}}{3 - 2\sqrt{11}}$

$$= \frac{(5 + \sqrt{11})(3 + 2\sqrt{11})}{(3 - 2\sqrt{11})(3 + 2\sqrt{11})}$$

(On rationalising the denominator)

$$= \frac{15 + 22 + 10\sqrt{11} + 3\sqrt{11}}{9 - 4 \times 11}$$

$$= \frac{37 + 13\sqrt{11}}{-35}$$

$$\therefore x + y\sqrt{11} = \frac{-37}{35} - \frac{13}{35}\sqrt{11}$$

$$\therefore x = \frac{-37}{35}$$

$$y = -\frac{13}{35}$$

37. (3) Percentage decrease

$$= \left(2x + \frac{x^2}{100} \right) \%$$

$$= \left(2 \times (-10) + \frac{(-10)^2}{100} \right) \%$$

$$= (-20 + 1) \% = -19 \%$$

38. (1) C.P. of $2\frac{1}{2}$ dozen or 30 eggs

$$= \frac{20}{12} \times 30 = \text{Rs. } 50$$

Their S.P. i.e. S.P. of 24 eggs

$$= 22 \times 2 = \text{Rs. } 44$$

$$\therefore \text{Loss} = \text{Rs. } (50 - 44) = \text{Rs. } 6$$

$$\therefore \text{Loss} \% = \frac{6}{50} \times 100 = 12 \%$$

39. (4) Maximum angle = 120°

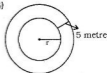
\Rightarrow company V

40. (4) Required difference

$$= \text{Rs. } \left[\left(\frac{120^\circ - 100^\circ}{360} \right) \times 72 \right] \text{ crores}$$

$$= \text{Rs. } 4 \text{ crores}$$

41. (4)



More distance, more time (speed is constant)

$$\therefore \frac{2\pi(r+5)}{2\pi r} = \frac{20}{19}$$

$$\Rightarrow \frac{r+5}{r} = \frac{20}{19}$$

$$\Rightarrow 20r = 19r + 95$$

$$\Rightarrow 20r - 19r = 95$$

$$\Rightarrow r = 95 \text{ metre}$$

\therefore Internal diameter

$$= (2 \times 95) \text{ metre}$$

$$= 190 \text{ metre}$$

42. (3) 2 children = 1 man

$$\therefore 8 \text{ children} + 12 \text{ men} = 16 \text{ men}$$

$$\therefore M_1 D_1 = M_2 D_2$$

$$\Rightarrow 16 \times 9 = 12 \times D_2$$

$$\Rightarrow D_2 = \frac{16 \times 9}{12} = 12 \text{ days.}$$

43. (2) Number of men initially

= x (let)

$$\therefore M_1 D_1 = M_2 D_2$$

$$\Rightarrow x \times 40 = (x + 8) \times 30$$

$$\Rightarrow 4x = 3x + 24$$

$$\Rightarrow 4x - 3x = 24$$

$$\Rightarrow x = 24 \text{ men}$$

44. (2) According to the question,

$$A + B + C = 510 \quad \dots (i)$$

$$A = \frac{2B}{3}; B = \frac{C}{4}$$

$$\therefore A = \frac{2}{3}B = \frac{2}{3} \times \frac{C}{4} = \frac{C}{6}$$

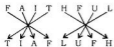
$$\therefore \frac{C}{6} + \frac{C}{4} + C = 510$$

$$\Rightarrow \frac{2C + 3C + 12C}{12} = 510$$

$$\Rightarrow 17C = 510 \times 12$$

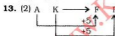


Similarly,



11. (4) Joker is an additional card in a pack of cards. Similarly, Cover is an additional part of a book.

12. (2) $(2)^3 = 8$
 $(3)^4 = 81$
 $(4)^3 = 64$
 $(5)^4 = 625$



Similarly,



14. (4) Money is carried in the wallet. Similarly, Letter is carried in an envelope.

15. (1) R \Rightarrow 59, 68, 77, 86, 95
 U \Rightarrow 56, 65, 78, 87, 99
 D \Rightarrow 01, 10, 23, 34, 42
 E \Rightarrow 02, 11, 20, 33, 44

| Options | R | U | D | E |
|---------|----|----|----|----|
| (1) | 59 | 99 | 34 | 11 |
| (2) | 77 | 56 | 02 | 01 |
| (3) | 95 | 87 | 42 | 10 |
| (4) | 56 | 65 | 10 | 33 |

16. (1) In each row there is one circle and two semi-circles. There are three different designs in the circle and semi-circles.

17. (1) There is no 'U' letter in the given word. Therefore, the word SITUATION cannot be formed.

ADMINISTRATIION \Rightarrow RATION

ADMINISTRATIION \Rightarrow STRAIN
 ADMINISTRATION \Rightarrow TRADITION

18. (4) No teacher comes to the school on a bicycle. Therefore, Anand cannot be a teacher. Anand is either student or clerical staff. Therefore, only Conclusion 1 follows.

19. (1) January \Rightarrow 1
 February \Rightarrow 1 + 1 = 2
 March \Rightarrow 2 + 2 = 4
 April \Rightarrow 4 + 3 = 7
 May \Rightarrow 7 + 4 = 11
 June \Rightarrow 11 + 5 = 16



23. (1) Arrangement of words as per dictionary :
 (2) Collegiate

(3) Collinear

(1) Collison

(4) Colloquy

24. (4) First figure
 $3 + 9 = 8 + 4$
 Second figure
 $4 + 7 = 6 + 5$
 Third figure
 $5 + ? = 9 + 3$
 $\Rightarrow ? = 12 - 5 = 7$

25. (3) Time at present
 $= 4 : 45 + 0 : 50$
 $= 5 : 35$
 $6 : 00 - 5 : 35 = 0:25$
 $= 25$ minutes

26. (1) Speed of train = 72 kmph
 $= \left(\frac{72 \times 5}{18} \right)$ m/sec.

$= 20$ m/sec.

Required time

$$= \frac{\text{Length of train and bridge}}{\text{Speed of train}}$$

$$= \frac{(200 + 800)}{20}$$

$$= \frac{1000}{20} = 50 \text{ seconds}$$

27. (2) Total present age of family
 $= (2 \times 23 + 2 \times 5 + 1)$ years
 $= (46 + 10 + 1)$ years = 57 years

$$\therefore \text{Required average} = \frac{57}{3}$$

$= 19$ years

28. (1) C.P. for Y

$$= \frac{150000 \times 105}{100} = \text{Rs. } 157500$$

S.P. for Y

$$= \frac{157500 \times 98}{100} = \text{Rs. } 154350$$

\therefore X's gain

$$= \text{Rs. } (157500 - 154350)$$

$$= \text{Rs. } 3150$$

29. (4) Expression

$$= \frac{(75.8)^2 - (35.8)^2}{40}$$

$$= \frac{(75.8 + 35.8)(75.8 - 35.8)}{40}$$

$$= \frac{111.6 \times 40}{40} = 111.6$$

30. (1) Rate = $\frac{20}{3}$ % per annum

\therefore S.I.

$$= \frac{\text{Principal} \times \text{Time} \times \text{Rate}}{100}$$

$$= \frac{2600 \times 20 \times T}{3 \times 100}$$

\therefore Required Time = 3 years

67. INEVITABLE
 (1) Significant
 (2) Unavoidable
 (3) Crucial
 (4) Undeniable
68. DRIZZLE
 (1) Sprinkle
 (2) Trickle
 (3) Splash
 (4) Downpour

Directions (69 - 72) : In the following questions, 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 as your answer.

69. We get milk from the _____.
 (1) dairy (2) daily
 (3) daisy (4) diary
70. A man from our village has been nominated _____ the ruling party's candidate for the post.
 (1) to (2) as
 (3) in (4) for
71. He has been staying in Delhi _____ a long time.
 (1) for (2) since
 (3) from (4) till
72. Jones is a member of our _____.
 (1) coup (2) council
 (3) counter (4) counsel

Directions (73 - 75) : In each of the following questions, four alternatives are given for the Idiom/Phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase as your answer.

73. Television has become **part and parcel** of our lives.
 (1) status symbol
 (2) unavoidable luxury
 (3) important part
 (4) showy part
74. My **kith and kin** congratulated me on my brilliant success.
 (1) niece and nephew
 (2) father and mother
 (3) relatives
 (4) colleagues
75. His frequent journeys are **telling upon** his health.
 (1) threatening
 (2) improving
 (3) informing
 (4) affecting

ANSWERS

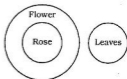
| | | | |
|---------|---------|---------|---------|
| 1. (4) | 2. (2) | 3. (2) | 4. (2) |
| 5. (1) | 6. (4) | 7. (1) | 8. (2) |
| 9. (1) | 10. (1) | 11. (4) | 12. (2) |
| 13. (2) | 14. (4) | 15. (1) | 16. (1) |
| 17. (1) | 18. (4) | 19. (1) | 20. (2) |
| 21. (2) | 22. (4) | 23. (1) | 24. (4) |
| 25. (3) | 26. (1) | 27. (2) | 28. (1) |
| 29. (4) | 30. (1) | 31. (3) | 32. (1) |
| 33. (2) | 34. (2) | 35. (1) | 36. (4) |
| 37. (3) | 38. (1) | 39. (4) | 40. (4) |
| 41. (4) | 42. (3) | 43. (2) | 44. (2) |
| 45. (2) | 46. (4) | 47. (2) | 48. (1) |
| 49. (4) | 50. (3) | 51. (4) | 52. (4) |
| 53. (4) | 54. (4) | 55. (4) | 56. (1) |
| 57. (4) | 58. (2) | 59. (1) | 60. (2) |
| 61. (2) | 62. (4) | 63. (1) | 64. (4) |
| 65. (4) | 66. (3) | 67. (2) | 68. (1) |
| 69. (1) | 70. (2) | 71. (1) | 72. (2) |
| 73. (3) | 74. (3) | 75. (4) | |

EXPLANATIONS

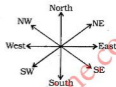
1. (4) A E O I T
 ↓ ↓ ↓ ↓ ↓
 1 + 5 + 15 + 9 + 20
 = 50
 A I O E J
 ↓ ↓ ↓ ↓ ↓
 1 + 9 + 15 + 5 + 10
 = 40
 A O U E H
 ↓ ↓ ↓ ↓ ↓
 1 + 15 + 21 + 5 + 8
 = 50
 A I O E U
 ↓ ↓ ↓ ↓ ↓
 1 + 9 + 15 + 5 + 21
 = 51
2. (2) Y $\xrightarrow{-3}$ V $\xrightarrow{+2}$ X
 Q $\xrightarrow{-3}$ N $\xrightarrow{+1}$ O
 E $\xrightarrow{-3}$ B $\xrightarrow{+2}$ D
 I $\xrightarrow{-3}$ F $\xrightarrow{+2}$ H

3. (2) Except 631, all others are even numbers.
 4. (2) Except cube, all others are plane figures.

5. (1) Rose is a flower. Leaves are different from flower.



6. (4)



Point G is in North-East direction with reference to the Point A.

7. (1) A → B → C → D → E → F → G
 Z → Y → X → W → V → U → T
8. (2) 3 + 5 = 8
 8 + 2 = 10
 10 + 5 = 15
 15 + 2 = 17
 17 + 5 = 22
 22 + 2 = 24
 24 + 5 = 29
 29 + 2 = 31
9. (1)

ENGLISH

47. A seller gains 20% profit even after allowing 10% discount. If the amount of profit on a TV set is Rs. 750, then the marked price of the TV set is
(1) Rs. 5200 (2) Rs. 5000
(3) Rs. 4800 (4) Rs. 5500
48. Ram bought a bike for Rs. 60,000. He paid Rs. 10000 cash down and the rest at the end of 2 years at 15% simple interest. How much more did he pay as simple interest ?
(1) Rs. 15,000 (2) Rs. 25,000
(3) Rs. 35,000 (4) Rs. 50,000
49. A man rows 750 m in 600 seconds against the stream and returns in $7\frac{1}{2}$ minutes. Its rowing speed in still water is (in km/hr).
(1) 5.5 (2) 5.75
(3) 5 (4) 5.25
50. A scooter is sold at three successive discounts of 10%, 5% and 2%. If the marked price of the scooter is Rs. 18,000, find its net selling price.
(1) Rs. 15028.20
(2) Rs. 15082.00
(3) Rs. 15082.20
(4) Rs. 15080.00

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Directions (51-53) : In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is the answer. If a sentence is free from error, your answer is No Error.

51. An idea was worth nothing if it has no champion.
(1) No error
(2) if it has no champion
(3) An idea
(4) was worth nothing
52. The camp beside ours has been built in 1966 by John's brother.
(1) No error
(2) by John's brother
(3) The camp beside ours
(4) has been built in 1966
53. I have been waiting for you since two hours.
(1) for you
(2) No error
(3) I have been waiting
(4) since two hours

Directions (54-56) : In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences.

54. To put two and two together
(1) Proud
(2) Good friend
(3) Selfish friend
(4) Understand
55. A container for the ashes of a dead person
(1) Vessel (2) Vase
(3) Jug (4) Urn
56. One who pretends to be what he is not
(1) Hypocrite (2) Turncoat
(3) Liar (4) Actor

Directions (57 - 59) : In the following questions, a part of the sentence is printed in bold. Below are given alternatives to the bold part which may improve the sentence. Choose the correct alternatives. In case no improvement is needed your answer is No improvement.

57. Journalism and medicine **would be** two of his career options.

- (1) No improvement
(2) could be
(3) will be
(4) might be

58. No economist can accurately **foresee** whether tax will go up or down.
(1) expect
(2) anticipate
(3) No improvement
(4) obviate
59. One should keep **their** word.
(1) One's
(2) his
(3) everyone's
(4) No improvement

Directions (60-62) : In the following three questions, choose the word opposite in meaning to the given word.

60. NOISILY
(1) loudly (2) quietly
(3) clearly (4) distinctly

61. ADMIRATION
(1) blame (2) contempt
(3) disapprove (4) despise

62. BEAUTIFUL
(1) bountiful (2) unique
(3) bizarre (4) ugly

Directions (63-65) : In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word as your answer.

63. (1) complacency
(2) complacensy
(3) cumplacency
(4) co-mplicency

64. (1) compelsory
(2) compulsory
(3) compulsory
(4) compulsory

65. (1) entusiasm
(2) enthussiasm
(3) enthusiasim
(4) enthusaism

Directions (66 - 68) : In the following three questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

66. ENORMOUS
(1) Petty
(2) Warehouse
(3) Immense
(4) Trivial

29. The value of

$$\frac{(75.8)^2 - (35.8)^2}{40} \text{ is}$$

- (1) 121.6 (2) 40
(3) 160 (4) 111.6

30. What should be the least number of years in which the simple interest on Rs. 2600 at

$6\frac{2}{3}\%$ will be an exact number

of rupees ?

- (1) 3 (2) 2
(3) 5 (4) 4

31. A man allows a discount of 10% on a book whose marked price is Rs. 40. What is the cost price so that the profit is 20%?

- (1) Rs. 35 (2) Rs. 40
(3) Rs. 30 (4) Rs. 45

32. The three angles of a triangle are in the ratio 3 : 4 : 5. Then the angles respectively are :

- (1) $45^\circ, 60^\circ, 75^\circ$
(2) $60^\circ, 45^\circ, 75^\circ$
(3) $60^\circ, 75^\circ, 45^\circ$
(4) $75^\circ, 60^\circ, 45^\circ$

33. The amount of rice produced in a square field of side 50 m is 750 kg. The amount of rice produced in a similar square field of side 100 m will be

- (1) 2000 kg (2) 3000 kg
(3) 3500 kg (4) 1500 kg

34. The sum of all natural numbers from 75 to 97 is :

- (1) 1598 (2) 1978
(3) 1798 (4) 1958

35. Six friends have an average height of 167 cms. A boy with height 162 cm leaves the group. Find the new average height.

- (1) 168 cm (2) 166 cm
(3) 169 cm (4) 167 cm

36. If x, y are rational numbers

$$\text{and } \frac{5 + \sqrt{11}}{3 - 2\sqrt{11}} = x + y\sqrt{11}.$$

The values of x and y are

$$(1) x = \frac{-14}{17}, y = \frac{-13}{26}$$

$$(2) x = \frac{4}{13}, y = \frac{11}{17}$$

$$(3) x = \frac{-27}{25}, y = \frac{-11}{37}$$

$$(4) x = \frac{-37}{85}, y = \frac{-13}{35}$$

37. If the radius of a circle is decreased by 10%, then the area of the circle is decreased by

- (1) 89% (2) 18%
(3) 19% (4) 25%

38. Ritu purchased $2\frac{1}{2}$ dozen eggs

at the rate of Rs. 20 per dozen. She found that 6 eggs were rotten. She sold the remaining eggs at the rate of Rs. 22 per dozen. Then her profit or loss percent is :

- (1) 12% loss (2) 12% profit
(3) 10% loss (4) 10% profit

Directions (39-40) : The following pie-chart shows the market share of four companies S, T, U and V. Total market is worth Rs. 72 crores. Study the pie-chart and answer the questions.



39. The company having maximum market share is

- (1) T (2) U
(3) S (4) V

40. The difference of market shares of companies V and U is

- (1) Rs. 8 crores (2) Rs. 9 crores
(3) Rs. 6 crores (4) Rs. 4 crores

41. The time required for a boy to travel along the external and internal boundaries of a

circular path are in the ratio 20 : 19, if the width of the path be 5 metres, the internal diameter is :

- (1) 195 metres (2) 192 metres
(3) 180 metres (4) 190 metres

42. 8 children and 12 men complete a certain piece of work in 9 days. Each child takes twice the time taken by a man to finish the work. In how many days will 12 men finish the same work ?

- (1) 9 days (2) 13 days
(3) 12 days (4) 15 days

43. A certain number of men can do a work in 40 days. If there were 8 men more, it could be finished in 10 days less. How many men were there initially?

- (1) 20 (2) 24
(3) 30 (4) 16

44. If Rs. 510 be divided among A, B and C in such a way that A

gets $\frac{2}{3}$ of what B gets and B

gets $\frac{1}{4}$ of what C gets, then

their shares are respectively

- (1) Rs. 150, Rs. 240, Rs. 120
(2) Rs. 60, Rs. 90, Rs. 360
(3) Rs. 120, Rs. 240, Rs. 150
(4) Rs. 150, Rs. 300, Rs. 60

45. The average weight of 8 persons increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. The weight of the new person is

- (1) 84 kg (2) 85 kg
(3) 76 kg (4) 76.5 kg

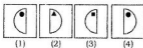
46. The sum of two positive numbers is 20% of the sum of their squares and 25% of the difference of their squares. If the numbers are x and y then,

$$\frac{x+y}{x^2} \text{ is equal to}$$

- (1) $\frac{1}{4}$ (2) $\frac{3}{8}$

- (3) $\frac{1}{3}$ (4) $\frac{2}{9}$

Answer Figures :



17. From the given alternative words, select the word which cannot be formed using the letters of the given word.

ADMINISTRATION

- (1) SITUATION
(2) RATION
(3) STRAIN
(4) TRADITION

Directions : Two statements are given followed by two Conclusions/Assumptions, I and II. You have to consider the statement to be true, even if it seems at variance from commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from given statement. Indicate your answer.

18. Statements

- No teacher comes to the school on a bicycle.
- Anand comes to the school on a bicycle.

Conclusions

- Anand is not a teacher
- Anand is a student.

- (1) Conclusion II alone can be drawn.
(2) Both conclusions cannot be drawn.
(3) Both conclusions can be drawn.
(4) Conclusion I alone can be drawn.
19. The number of students in an art class is increasing month after month as follows. Find the number of students in June from the following information.

| Month | No. of Students |
|----------|-----------------|
| January | 1 |
| February | 2 |
| March | 4 |
| April | 7 |
| May | 11 |
| June | ? |

- (1) 16 (2) 13
(3) 15 (4) 14

20. In the question, if a mirror is placed on the line AB then which of the answer figures is the right image of the given figure ?

Question Figure :

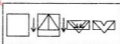


Answer Figures :

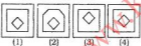


- (1) (2) (3) (4)
21. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question Figure :



Answer Figures :

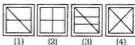


- (1) (2) (3) (4)
22. From the given answer figures, select the one in which the question figure is hidden/embedded.

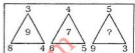
Question Figure :



Answer Figures :



- (1) (2) (3) (4)
23. Which will appear 3rd in the dictionary ?
(1) collision (2) collegiate
(3) collinear (4) colloquy
24. Find the missing number from the given responses.



- (1) 8 (2) 9
(3) 6 (4) 7

25. If 50 minutes ago, it was 45 minutes past four 'O' clock, how many minutes is it until six 'O' clock ?

- (1) 45 (2) 15
(3) 25 (4) 35

ELEMENTARY MATHEMATICS

26. A 200 metre long train is running at a speed of 72 km/hr. How long will it take to cross 800metre long bridge ?
(1) 50 seconds (2) 40 seconds
(3) 60 seconds (4) 30 seconds

27. The average age of a husband and his wife was 23 years at the time of their marriage. After five years they have a one year old child. The average age of the family now is

- (1) 29.3 years (2) 19 years
(3) 23 years (4) 28.5 years

28. A house worth Rs. 1,50,000 is sold by X to Y at 5% profit. Y sells the house back to X at 2% loss. Then in the entire transaction :

- (1) X gains Rs. 3150
(2) X loses Rs. 4350
(3) X loses Rs. 1350
(4) X gains Rs. 4350

SSC CONSTABLE (GD) EXAM

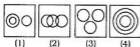
GENERAL INTELLIGENCE AND REASONING

1. If the alphabets are numbers the sum of which 5 alphabets is 51.

(1) AEOIT (2) AIOEJ
(3) AOUEH (4) AIOEU

Directions (2-4) : Find the odd word/letter/number from the given alternatives :

2. (1) YVX (2) QNO
(3) EBD (4) IFH
3. (1) 424 (2) 631
(3) 432 (4) 460
4. (1) Triangle (2) Cube
(3) Square (4) Trapezium
5. Which figure represents the relation amongst rose, flower and leaves.



6. Raghu starts from his house in his car and travels 8 km towards the North, then 6 km towards East then 10 km towards his right, 4 km towards his left, 10 km towards North and finally 4 km towards his right. In which direction is he now with reference to the starting point ?

(1) North (2) South-East
(3) South (4) North-East

Directions (7-8) : A series is given, with one/two terms missing. Choose the correct alternative from the given ones that will complete the series.

7. A, Z, B, Y, C, X, D, W, E, V, F, U, G, ?
- (1) T (2) R
(3) V (4) S

8. 3, 8, 10, 15, 17, 22, 24, ?, ?
- (1) 26, 28 (2) 29, 31
(3) 29, 32 (4) 29, 34

9. Which of the answer figures can be formed using the question figures.



10. In a certain code TEMPLE is written as METELP. How is FAITHFUL written in that code?

(1) TIAFLUFH (2) TAFULFH
(3) TAFILUFH (4) TIAFULH

Directions (11-14) : Select the related word/letter/number from the given alternatives.

11. CARD : JOKER :: BOOK : ?
- (1) WORDS (2) WRITER
(3) PAGES (4) COVER

12. 8 : 81 :: 64 : ?
- (1) 525 (2) 625
(3) 125 (4) 137

13. AK : FP :: XD : ?
- (1) SJ (2) CI
(3) BH (4) TE

14. WALLET : MONEY :: ENVELOPE : ?
- (1) GUM
(2) POSTOFFICE
(3) SUITCASE
(4) LETTER

15. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two Matrices given below. The columns and rows of

Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'T' can be represented by 03, 12 etc., and 'M' can be represented by 55, 67 etc. Similarly, you have to identify the set for the word 'RUDE'.

MATRIX-I

| | | | | | |
|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 |
| 0 | B | D | E | T | O |
| 1 | D | E | T | O | B |
| 2 | E | B | O | D | T |
| 3 | T | O | B | E | D |
| 4 | O | T | D | B | E |

MATRIX-II

| | | | | | |
|---|---|---|---|---|---|
| | 5 | 6 | 7 | 8 | 9 |
| 5 | M | U | I | L | R |
| 6 | U | L | M | R | I |
| 7 | I | M | R | U | L |
| 8 | L | R | U | I | M |
| 9 | R | I | L | M | U |

- (1) 55, 99, 34, 11
(2) 77, 56, 02, 01
(3) 95, 87, 42, 12
(4) 56, 65, 10, 33

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

Question Figure :

