

Reasoning Test Solution

Q1. It is a case of overlapping.

!----->amit(19th)
suraj(23rd)<-----raju-----!
16th from left end

Ans. a

Q2. 20th rank from right side

Ans . d

Q3. **Ans a**

There are 5 students in between them

Q4. $21+17+10 = 48$

Ans a

Q5.

Ans a (41)

Q6.

Q7.

Ans a (5)

Q8.

Ans c 23rd

Q9.

Ans

Q10.

Ans d

Q11.

Ans c

Q12.

Ans b

Q13.

Ans d

Q15.

Ans some problem

Q16.

Ans b

Q17.

Ans d

Q18.

Ans b

Q19.

Ans a

Q20.

Ans a

Q21. E N V I R O N M E N T
 E E I M N N N O R T V

Ans b

Q22. BEAR

Ans c

Q23.

Ans a

Q24.

Ans b

Q25.

Ans

Q26. 98765 98765 98765 98765

Ans a

Q27.

Ans c

Q28.

Ans d

29- a

30- b

31- c

32- d

Q33. mother's brother

Ans c

Q34.

Ans e

Q35.

Ans c

36. A

$$(6m + 8B) * 10 = (26m + 48B) * 2$$

$$60 M + 80 B = 52 M + 96 B$$

$$8 M = 16 B$$

$$1 M = 2 B$$

$$15 M + 20 B = 30 B + 20 B = 50 B$$

$$6 M + 8 B = 12 M + 8 B = 20B$$

$$20 b _ 10 \text{ days}$$

$$50 \text{ boys} = (20 * 10) / 50$$

$$= 4 \text{ days}$$

37. A

A can complete a work in $12 * 8 = 96$ hours

B can complete a work in $10 * 8 = 80$ hours

A + B together can complete a work in $(96 * 80) / (96 + 80) = 480 / 11$

If they work 8 hours per day then the number of days required = $(480/11) / 8$
 $= 60/11$

38. C

Let total work = 100 units

X + Y + Z - 1 day work = 10 units

X + Y + Z - 4 day work = 40 units

Remaining work = 60 units

Y + Z - 10 day work = 60 units

Y + Z - 1 day work = 6 units

X - 1 day work = 4 units

Days required to do 100 units = $100/4 = 25$ days

39. C

sum of 11 numbers = $11 * 36 = 396$

sum of first numbers = $9 * 34 = 306$

Sum of last two numbers = $396 - 306 = 90$

numbers are in the ratio = 2 : 3

smallest number = $(90/5) * 2 = 54$

40. D

Let the first part be 5 km and 2nd part be 3km

Total journey = 8 km

time taken to cover 5 km at the speed of 5 kmph = 1 hour

time taken to cover 3 km at the speed of 3 kmph = 1 hour

total time = 2 hours

average speed = $8/2 = 4$ kmph

41. C

$$(5438 + 887 + 1175) / 384$$

$$= 7500 / 384$$

$$= 19.53$$

$$= 20 \text{ (approximately)}$$

42. D

$$\begin{aligned}\sqrt{859} * \sqrt{13} &= \sqrt{859*13} \\ &= \sqrt{66 * 13 * 13} \\ &= 8 * 13 = 104 \\ &= 105 \text{ (approximately)}\end{aligned}$$

43. A

$$\begin{aligned}28*4 &= 112 \\ 112*(1/8) &= 14 \\ 14*12 &= 168 \\ 168* (1/16) &= 10.5 \\ 10.5* 20 &= 210 \\ ? &= 168\end{aligned}$$

44. E

$$\begin{aligned}16x^2 - 68x + 72 &= 0 \\ 4x^2 - 17x + 18 &= 0 \\ 4x^2 - 8x - 9x + 18 &= 0 \\ 4x(x - 2) - 9(x - 2) & \\ (4x - 9)(x - 2) &= 0 \\ X = 9/2 \text{ or } x = 2\end{aligned}$$

$$\begin{aligned}8y^2 - 58y + 99 &= 0 \\ 8y^2 - 24y - 33y + 99 &= 0 \\ 8y(y - 3) - 33(y + 3) &= 0 \\ (8y - 33)(y - 3) &= 0 \\ Y = 33/8 \text{ or } y = 3\end{aligned}$$

(e) relationship between x and y cannot be determined
or y = 3

Relationship- between x and y can not be established

45. E

$$\begin{aligned}x^2 + 4x - 21 &= 0 \\ x^2 + 7x - 3x - 21 &= 0 \\ X(x + 7) - 3(x + 7) &= 0 \\ (x - 3)(x + 7) &= 0 \\ X = 3 \text{ or } x = -7\end{aligned}$$

$$\begin{aligned}y^2 + 14y + 48 &= 0 \\ y^2 + 6y + 8y + 48 &= 0 \\ y(y + 6) + 8(y + 6) &= 0 \\ (y + 6)(y + 8) &= 0\end{aligned}$$

$$Y = -6 \text{ or } y = -8$$

Relationship between x and y can not be established

46. C

$$x^2 + 16x + 64 = 0$$

$$(x + 8)^2 = 0$$

$$X = -8, x = -8$$

$$7y^2 - 2\sqrt{21}y + 3 = 0$$

$$(\sqrt{7}y - \sqrt{3})^2 = 0$$

$$Y = \frac{\sqrt{3}}{\sqrt{7}} \text{ or } y = \frac{\sqrt{3}}{\sqrt{7}}$$

Y is greater than x

47. B

difference between 34% of a number and 25% of the same number is 540.

$$9\% = 540$$

$$1\% = 60$$

$$56\% = 3360$$

48. E

$$\text{VOLUME OF WELL} = \pi r^2 h$$

$$= (22/7) * 14 * 14 * 40$$

$$= 24640$$

49. E

Let MP = 100.

SP after giving 15% commission = 100 - 15% of 100 = 85.

Let CP = X.

Gain = 125%.

Now,

$$X + 125\% \text{ of } X = 225\% \text{ of } x = 85$$

$$X = 340/9$$

If 20% commission was given then Sp = 80.

$$\text{Gain} = 80 - 340/9 = 380/9$$

$$\% \text{ gain} = (380/9) * 100 / (340/9) = 1900/17$$

50. A

P takes 4 hours more than Q to cover x km.
 If P doubles his speed than it takes 2 hours less than q to cover x km
 This means that p saves 6 hours by doubling his speed.
 It means that P takes 12 hours to cover x km at the usual speed and takes 4 hours more than q
 Therefore Q takes 8 hours to cover the x km

51.

Total no. of students = 52
 Total no. of teachers = 12
 25% of 52 = 13
 50% of 52 = 26
 Each students got sweets = 13
 Each teachers got sweets = 26
 Total sweets = $13 \times 52 + 26 \times 12 = 988$

52. E

Let the number of students in room X = x
 Number of students in room Y = y
 $x - 15 = y + 15$
 $x - y = 30$ (1)
 $x + 25 = 2(y - 25)$
 $X - 2y = -75$ (2)
 From equation (1) and (2) we get
 $X = 135$

53. D

A train covers a distance of 990 km in 15 hours
 Average speed of train = $990/15 = 66$ kmph
 Average speed of car = 60% of 66
 = 39.6 kmph

54. D

A _____ 25 days
 A is 50% more efficient than B
 $A = 3B/2$ and $B = 2A/3$
 $A + B = 5A/3$
 If A can do work in 25 days.
 Then $5A/3$ can do the same work in $(25 \times 3)/5 = 15$ days

55.B

$(7961 + 4389 + 6524) \div (57 + 63 + 89)$
 = $18874 / 219 = 90$ (approximate)

56. B

$(550.99 \div 29.01 + 684.01 \div 56.99) = ?$

$$551/29 + 684/57$$
$$19 + 12 = 31$$

57. D

$$(29\% \text{ of } 659 + 71\% \text{ of } 419) = ?$$
$$30\% \text{ of } 650 + 70\% \text{ of } 420 \text{ (approximately)}$$
$$= 195 + 294$$
$$= 489$$
$$= 492 \text{ (approximately)}$$

58. A

$$829.01 \times 16.98 + 598.01 \div 19.98 = ?$$
$$= 829 \times 17 + 600/20$$
$$= 14093 + 30 = 14123$$
$$= 14140$$

59. D

$$27\% \text{ of } 783 + 39.01 \times 26.98 = ?$$
$$= 30\% \text{ of } 780 + 39 \times 27$$
$$= 234 + 1053$$
$$= 1287$$
$$= 1281 \text{ (approximately)}$$

60. E

61. A

62. C

63. D

64. B

65. B

Average age of a man and his son = 56
Sum of their ages = 112
Ratio of their age = 6 : 1
Age of man = $(112 \times 6)/7 = 96$
Age of his son = 16
Difference of their age = $96 - 16 = 80$

66. E

401, 401, 394, 368, 305 ?

$$401 - (1^3 - 1) = 401$$
$$401 - (2^3 - 1) = 394$$
$$394 - (3^3 - 1) = 368$$

$$368 - (4^3 - 1) = 305$$

$$305 - (5^3 - 1) = 181$$

67. E

$$P's \text{ investment} * 12 : Q's \text{ investment} * 8 : R's \text{ investment} * 4 = 6 : 5 : 4$$

$$7200 * 12 : Q's * 8 : R's * 4 = 6 : 5 : 4$$

$$86400 / R's * 4 = 6/4$$

$$R's = 14400$$

68. A

$$C.p. \text{ of } 17 \text{ books} = 1750$$

$$c.P. \text{ of } 23 \text{ books} = 2250$$

$$C.P. \text{ of } 40 \text{ books} = 4000$$

$$\text{Average price} = 4000/40 = 100$$

69. E

Let numerator = x

And denominator = y

$$(X + 2) / (y + 5) = 3/7$$

$$7x - 3y = 1 \quad (1)$$

$$(x + 1) / (y + 3) = 3/8$$

$$8x - 3y = 1 \quad (2)$$

From (1) and (2) we get

$$x = 0$$

There is no such fraction

70. A

$$56250 / 25 = 2250$$

$$6346 - 2250 = 4096$$

$$\sqrt{4096} = 64$$

ENGLISH LANGUAGE



71) Ans (c), 72) Ans (e), 73) Ans (d), 74. Ans (c)

75. Ans (a), 76. Ans (b), 77. Ans (d), 78. Ans (d)

79. Ans (c), 80. Ans (c), 81. (e) Share

82. (b) Measures, 83. (c) Follow, 84. (a) Given

85. (e) Paid, 86. (b) Caught, 87. (c) Merely

88. (e) Align, 89. (d) Collects, 90. (d) Matched

91. Ans: (b) Change the position of 'only'. Put it before 'eight hundred rupees'. As a general rule 'only' or 'even' should be placed immediately before the word it is intended to qualify.

92. Ans: (d) Change 'no' to 'any'. 'Hardly' is a negative word and hence should not be followed a negative word.

93. Ans: (a) Change 'evidently' to 'evident' to make it adjective.

94. Ans: (d) Add 'a' before few to make it positive.

95. Ans: (b) Replace 'very' by 'much'. Past participle is normally preceded by 'much' as present participle is normally preceded by 'very'.

96. Ans: (b) Change 'regular' to regularly to make it adverb of manner.

97. Ans: (a) Change 'easy' to 'easier' to make it a comparative degree.

98. Ans: (d) Replace 'few' by 'some'. 'Few' denotes number and 'some' denotes a quantity or an amount.

99. Ans: (a) Put 'all' before 'my'. 'my all' is a faulty expression. Rectify it as 'all my'.

100. Ans: (b) Replace 'ever' by 'never'. 'Seldom' is a negative word and it must be paired with a negative word.