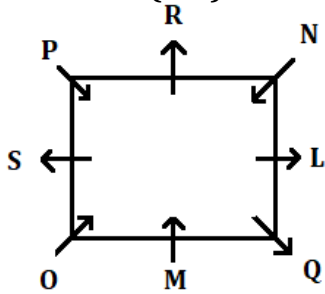


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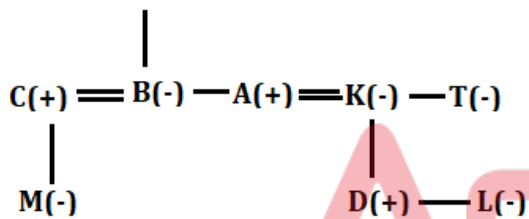
Solutions (1-5):



- S1. Ans.(b)
- S2. Ans.(c)
- S3. Ans.(a)
- S4. Ans.(d)
- S5. Ans.(c)

Solutions (6-9):

Q(-) = R(+)



- S6. Ans.(d)
- S7. Ans.(b)
- S8. Ans.(d)
- S9. Ans.(a)

S10. Ans.(e)
Sol.



Solutions (11-15):



- S11. Ans.(d)
- S12. Ans.(a)
- S13. Ans.(e)
- S14. Ans.(c)
- S15. Ans.(c)

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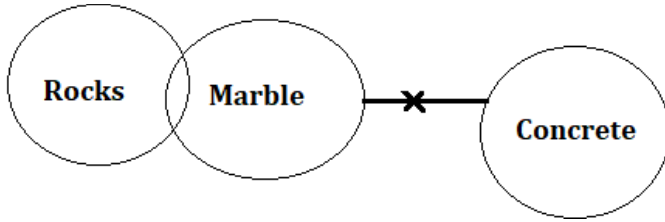
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Solution (16-20):

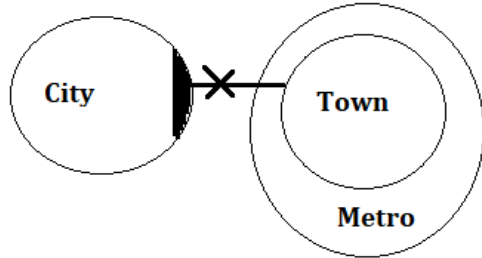
S16. Ans.(c)

Sol.



S17. Ans.(b)

Sol.



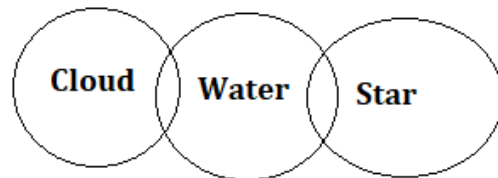
S18. Ans.(a)

Sol.



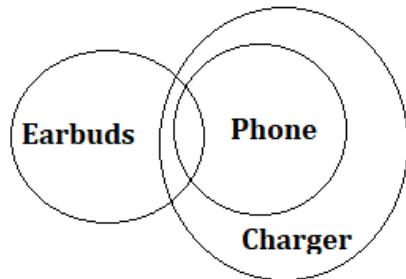
S19. Ans.(b)

Sol.



S20. Ans.(a)

Sol.



S21. Ans.(d)

Sol. Number-3852364718

After rearrangement- 4761453827

Sum= 8+4=12

Solution (22-25):

S22. Ans.(c)

S23. Ans.(d)

S24. Ans.(d)

S25. Ans.(a)

Solution (26-30):

Month	Date	Persons
September	15	D
	22	R
October	15	A
	22	Q
November	15	B
	22	S
December	15	C
	22	P

S26. Ans.(c)

S27. Ans.(b)

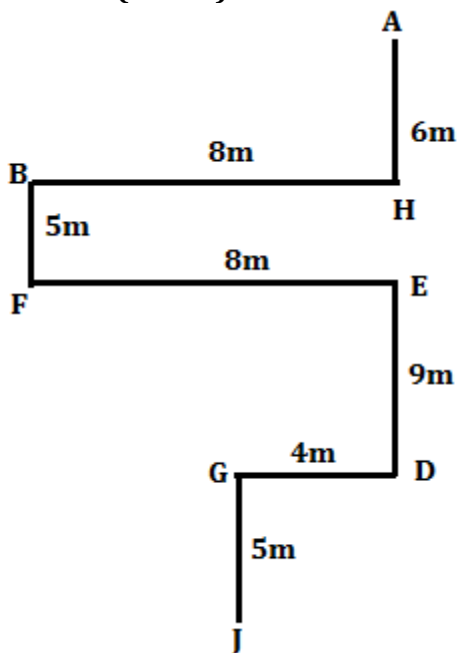
S28. Ans.(e)

S29. Ans.(d)

S30. Ans.(a)

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Solution (31-34):



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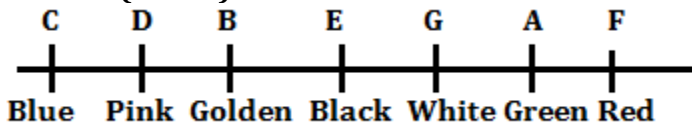
S31. Ans.(a)

S32. Ans.(b)

S33. Ans.(c)

S34. Ans.(d)

Solution (35-39):



S35. Ans.(b)

S36. Ans.(d)

S37. Ans.(d)

S38. Ans.(c)

S39. Ans.(e)

S40. Ans.(e)

Sol. "ICON, COIN"

S41. Ans.(b)

Sol. Wrong number = 445

Patter of series -

$$118 + (33 \times 1) = 151$$

$$151 + (33 \times 2) = 217$$

$$217 + (33 \times 3) = 316$$

$$316 + (33 \times 4) = 448$$

$$448 + (33 \times 5) = 613$$

$$613 + (33 \times 6) = 811$$



S42. Ans.(c)

Sol. Wrong number = 21

Patter of series -

Addition of consecutive prime numbers

$$18 + 2 = 20$$

$$20 + 3 = 23$$

$$23 + 5 = 28$$

$$28 + 7 = 35$$

$$35 + 11 = 46$$

$$46 + 13 = 59$$

S43. Ans.(c)

Sol. Wrong number = 560

Patter of series -

$$2 \times 1 + 1 = 3$$

$$3 \times 2 + 2 = 8$$

$$8 \times 3 + 3 = 27$$

$$27 \times 4 + 4 = 112$$

$$112 \times 5 + 5 = 565$$

$$565 \times 6 + 6 = 3396$$

S44. Ans.(d)**Sol.** Wrong number = 196

Patter of series –

$$8 + 8^2 = 72$$

$$72 + 7^2 = 121$$

$$121 + 6^2 = 157$$

$$157 + 5^2 = 182$$

$$182 + 4^2 = 198$$

$$198 + 3^2 = 207$$

S45. Ans.(c)**Sol.** Wrong number = 550

Patter of series –

$$451 + 51 = 502$$

$$502 + 51 = 553$$

$$553 + 51 = 604$$

$$604 + 51 = 655$$

$$655 + 51 = 706$$

$$706 + 51 = 757$$

S46. Ans.(c)**Sol.** $65\% \times 480 - ? + 175 = 350$

$$? = 137$$

S47. Ans.(b)

Sol. $4^? \times 2 = \frac{16^2}{\sqrt[4]{16}}$

$$4^? \times 2 = \frac{256}{2}$$

$$4^? = 64$$

$$4^? = (4)^3$$

$$? = 3$$

S48. Ans.(c)**Sol.** $4 \times (? + 120) = (8)^3$

$$4 \times ? = 512 - 480$$

$$? = \frac{32}{4}$$

$$? = 8$$

S49. Ans.(d)**Sol.** $\frac{144}{?} + \frac{40}{100} \times 250 = 108$

$$\frac{144}{?} + 100 = 108$$

$$\frac{144}{?} = 8$$

$$? = 18$$

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S50. Ans.(d)

$$\text{Sol. } \frac{?}{100} \times 1050 + 364 = (28)^2$$

$$\frac{?}{100} \times 1050 = 784 - 364$$

$$\frac{?}{100} \times 1050 = 420$$

$$? = \frac{420 \times 100}{1050}$$

$$? = 40$$

S51. Ans.(e)**Sol.**

$$\text{I. } x^2 + 7x - 98 = 0$$

$$x^2 + 14x - 7x - 98 = 0$$

$$x(x + 14) - 7(x + 14) = 0$$

$$(x + 14)(x - 7) = 0$$

$$x = -14, 7$$

$$\text{II. } y^2 - y - 42 = 0$$

$$y^2 - 7y + 6y - 42 = 0$$

$$y(y - 7) + 6(y - 7) = 0$$

$$(y + 6)(y - 7) = 0$$

$$y = -6, 7$$

So, no relation can be established between x and y.

S52. Ans.(b)**Sol.**

$$\text{I. } 12x^2 - 7x + 1 = 0$$

$$12x^2 - 4x - 3x + 1 = 0$$

$$4x(3x - 1) - 1(3x - 1) = 0$$

$$(3x - 1)(4x - 1) = 0$$

$$x = \frac{1}{3}, \frac{1}{4}$$

$$\text{II. } 20y^2 - 9y + 1 = 0$$

$$20y^2 - 5y - 4y + 1 = 0$$

$$5y(4y - 1) - 1(4y - 1) = 0$$

$$(4y - 1)(5y - 1) = 0$$

$$y = \frac{1}{4}, \frac{1}{5}$$

So, $x \geq y$

S53. Ans.(d)**Sol.**

$$\text{I. } x^2 + 13x - 114 = 0$$

$$x^2 + 19x - 6x - 114 = 0$$

$$x(x + 19) - 6(x + 19) = 0$$

$$(x + 19)(x - 6) = 0$$

$$x = -19, 6$$

$$\text{II. } y^3 = 216$$

$$y^3 = 6^3$$

$$y = 6$$

So, $x \leq y$

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S54. Ans.(b)**Sol.**

I. $x^2 - 6x + 8 = 0$

$x^2 - 4x - 2x + 8 = 0$

$x(x - 4) - 2(x - 4) = 0$

$(x - 4)(x - 2) = 0$

$x = 2, 4$

II. $y^2 + 2y - 8 = 0$

$y^2 + 4y - 2y - 8 = 0$

$y(y + 4) - 2(y + 4) = 0$

$(y + 4)(y - 2) = 0$

$y = -4, 2$

So, $x \geq y$ **S55. Ans.(d)****Sol.**

I. $x^2 - 5x - 6x + 30 = 0$

$x(x - 5) - 6(x - 5) = 0$

$(x - 5)(x - 6) = 0$

$x = 5, 6$

II. $y^2 - 6y - 7y + 42 = 0$

$y(y - 6) - 7(y - 6) = 0$

$(y - 6)(y - 7) = 0$

$y = 6, 7$

So, $y \geq x$ **Adda247****S56. Ans.(b)**

Sol. Required difference = $2000 \times \frac{80}{100} - 3500 \times \frac{20}{100}$
 $= 1600 - 700 = 900$

S57. Ans.(d)

Sol. Required new demanded items (in tons) of company D = $(3000 - 2500) + 4000 = 4500$

S58. Ans.(d)

Sol. Production of items of company C = $3000 \times \frac{130}{100} = 3900 \text{ ton}$

So, required difference = $3900 - 3000 = 900 \text{ ton}$

S59. Ans.(c)

Sol. Required ratio = $\frac{2500+4000}{4000}$
 $= \frac{6500}{4000} = 13:8$

S60. Ans.(b)

$$\text{Sol. Required percentage} = \frac{(2500+3000)-4000}{4000} \times 100$$

$$= \frac{1500}{40} = 37.5\%$$

Solutions (61-63):

$$\text{Total male in IT hub} = 800 \times \frac{2}{5} = 320$$

$$\text{Total female in IT hub} = 800 - 320 = 480$$

$$\text{Total male in Food hub} = \frac{400}{2} = 200$$

$$\text{Total female in Food hub} = 400 - 200 = 200$$

S61. Ans.(b)

$$\text{Sol. Total number of females in Medical hub} = 1200 \times \frac{5}{12} = 500$$

S62. Ans.(e)

$$\text{Sol. Required percentage} = \frac{320-200}{200} \times 100 = 60\%$$

S63. Ans.(d)

$$\text{Sol. Total males in Medical hub} = 480 \times \frac{150}{100} = 720$$

$$\text{Required ratio} = 320 : (1200 - 720) = 2 : 3$$

S64. Ans.(a)

Sol. Let C alone takes 'd' days to complete the work alone

So, A takes (d - 8) days to complete the work alone

ATQ -

$$\frac{1}{(d-8)} + \frac{1}{15} + \frac{1}{d} = \frac{1}{5}$$

$$\frac{2}{15} = \frac{1}{d} + \frac{1}{(d-8)}$$

$$d^2 - 23d + 60 = 0$$

$$d = 20 \text{ \& } d = 3$$

here vale of d can't be 3

$$\text{So, Required days} = 20 \times \frac{3}{4} = 15 \text{ days}$$

S65. Ans.(d)

$$\text{Sol. Equivalent interest rate at 10\% p.a. for two years on compound interest} = 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

$$\text{Total interest received form first scheme} = 12500 \times \frac{21}{100} = 2625 \text{ Rs.}$$

$$\text{Required interest} = 2625 \times \frac{20 \times 2}{100} = \text{Rs.1050}$$

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S66. Ans.(e)**Sol.** ATQ –

$$\frac{1600 \times t}{2000 \times (t+3)} = \frac{400}{1400-400}$$

$$t = 3$$

So, B invested for $(3 + 3) = 6$ months**Solutions (67-71):** In college A,

$$\text{Students in Masters} = 1000 \times \frac{20}{100} = 200$$

$$\text{Students in Bachelors} = 1000 - 200 = 800$$

Similarly,

College	Total students	Number of Masters students	Number of Bachelors students
A	1000	200	800
B	1250	375	875
C	1500	225	1275
D	850	119	731
E	1400	525	875

S67. Ans.(b)

$$\begin{aligned} \text{Sol. Required difference} &= (875 + 875) - (800 + 731) \\ &= 1750 - 1531 = 219 \end{aligned}$$

S68. Ans.(c)

$$\text{Sol. Number of female bachelor students in college C} = 1275 \times \frac{8}{15} = 680$$

$$\text{Required percentage} = \frac{680}{1500} \times 100 = 45\frac{1}{3}\%$$

S69. Ans.(a)

$$\text{Sol. Required average} = \frac{800+875+875}{3} = \frac{2550}{3} = 850$$

S70. Ans.(e)

$$\text{Sol. Number of students who didn't got scholarship} = \frac{4}{7} \times 119 = 68$$

S71. Ans.(b)

$$\text{Sol. Required percentage} = \frac{(375+225)-200}{200} \times 100 = 200\%$$

S72. Ans.(d)**Sol.** Let the length of train = x

and, the speed of train = s

ATQ,

$$\frac{x+100}{12} = s \text{ ----- (i)}$$

$$\text{And, } s = \frac{3x}{21} \text{ ----- (ii)}$$

From (i) & (ii)

$$\frac{x+100}{12} = \frac{x}{7}$$

$$7x + 700 = 12x$$

$$5x = 700$$

$$x = 140$$

$$\text{Speed of train} = \frac{3 \times 140}{21} = 20 \text{ m/s}$$

S73. Ans.(d)

Sol. Let the cost price of article be Rs 100x

$$\text{Mark up price of article} = 100x \times \frac{140}{100} = \text{Rs } 140x$$

$$\text{Selling price of article} = 140x \times \frac{75}{100} = \text{Rs } 105x$$

ATQ,

$$\therefore (105x - 100x) = 420$$

$$x = 84$$

$$\therefore \text{cost price} = \text{Rs } 8400$$

$$\text{Mark up price} = 84 \times 140 = \text{Rs } 11760$$

$$\therefore \text{selling price after 20\% discount}$$

$$= 11760 \times \frac{80}{100} = 9408$$

$$\therefore \text{Profit after 20\% discount} = 9408 - 8400 = \text{Rs } 1008$$

S74. Ans.(d)

Sol. Q got = 100x votes

So, P got = 50x votes

Total votes = 150x votes

For tie, Q's votes = P's votes = 75x

$$100x - 75x = 200$$

$$x = 8$$

$$\text{Total votes polled} = 8 \times 150 = 1200$$

S75. Ans.(e)

Sol. Let present age of P and Q be 'x' and 'y' years respectively.

ATQ,

$$x + y = 23 \times 2 + 3 \times 2$$

$$x + y = 52 \dots(i)$$

and,

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

$$5x + 20 = 4y - 8$$

$$5x - 4y = -28 \dots(ii)$$

From (i) and (ii)

$$x = 20 \text{ years.}$$



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S76. Ans.(b)**Sol.** $\pi r^2 + lb = 2136$ (where r- radius of circle, l- length of rectangle & b- breadth of rectangle)

$$\frac{22}{7} \times 21 \times 21 + l \times 30 = 2136$$

$$l = \frac{750}{30} = 25\text{cm}$$

So, circumference of circle = $2\pi r$

$$= 2 \times \frac{22}{7} \times 21$$

$$= 132 \text{ cm}$$

Perimeter of rectangle = $2 \times (l + b)$

$$= 2 (25 + 30)$$

$$= 110 \text{ cm}$$

$$\therefore \text{Required difference} = 132 - 110 = 22 \text{ cm}$$

S77. Ans.(b)**Sol.** Marks of Deepak in Hindi = $(70 \times 3) - (73 \times 2) = 64$

$$\text{Marks of Deepak in Science} = 64 \times \frac{125}{100} = 80$$

$$\text{Required average} = \frac{64+80+73 \times 2}{4} = 72.5$$

S78. Ans.(a)**Sol.** ATQ,

$$\text{Quantity of milk in the final mixture in the vessel} = \left(80 \times \frac{3}{8}\right) - \left(20 \times \frac{3}{8}\right) + 20$$

$$= 42.5 \text{ liters}$$

$$\text{Quantity of water in the final mixture in the vessel} = \left(80 \times \frac{5}{8}\right) - \left(20 \times \frac{5}{8}\right)$$

$$= 37.5 \text{ liters}$$

$$\text{Required ratio} = \frac{42.5}{37.5} = 17:15$$

S79. Ans.(c)**Sol.** Let the distance between P & Q be 'd' km.

ATQ,

$$d = 5(x + x + 20)$$

$$\Rightarrow d = 10x + 100 \text{ -----(i)}$$

and,

$$\frac{d}{x} - \frac{d}{(x+20)} = \frac{9}{4} \text{ -----(ii)}$$

From (i) & (ii)

$$9x^2 - 620x - 8000 = 0$$

$$\Rightarrow x = 80 \text{ or } \frac{-100}{9}$$

$$\text{Required distance} = 10 \times 80 + 100 = 900\text{km}$$

S80. Ans.(b)

Sol. The speed of motor boat in still water = $x = 18$ km/hr

Let the speed of current is y km/hr

ATQ

$$\frac{90}{18 + y} = 3$$

$$y = 12 \text{ km/h}$$

time taken by it to cover the same distance against the stream

$$= \frac{90}{18-12} = \frac{90}{6}$$

$$= 15 \text{ hours}$$



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