S1. Ans.(a)
Sol.

Published	Jo
Authority	Pi
Notification	See
Government	Mo
By	Ga
Of	Ti
The/indian	Doo/nee

Direction (2-6):
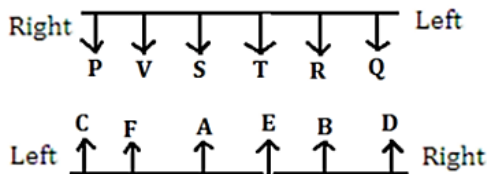
S2. Ans.(d)
S3. Ans.(b)
S4. Ans.(b)
S5. Ans.(c)
S6. Ans.(e)

Directions (7-11):

Days	Exams
SUNDAY	U
MONDAY	Z
TUESDAY	V
WEDNESDAY	X
THURSDAY	F
FRIDAY	W
SATURDAY	Y

S7. Ans.(d)
S8. Ans.(a)
S9. Ans.(e)
S10. Ans.(c)
S11. Ans.(c)

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S12. Ans.(e)
Sol. I. C < K (True)   **II.** B ≤ D (True)

S13. Ans.(b)
Sol. I. A ≥ J (False)   **II.** K > B (True)

S14. Ans.(a)
Sol. I. B > N (True)   **II.** L < K (false)

S15. Ans.(a)
Sol. I. L > N (True)   **II.** L = N (False)

S16. Ans.(e)
Sol. 374

S17. Ans.(d)
Sol. (4 + 8 + 1) = 13

S18. Ans.(b)
Sol. 8 * 5 = 40

S19. Ans.(c)
Sol. Two

S20. Ans.(c)
Sol. Two

S21. Ans.(b)
Sol. Raj started walking towards west.

S22. Ans.(e)
Sol. Village D is in south-west direction with respect to village C.

S23. Ans.(d)
Sol. Lady is cousin (maternal sister of Rohan)

S24. Ans.(d)
Sol. Priya is wife of Pritam.

S25. Ans.(c)
Sol. L=6th
 L=15th
 L=9th

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S26. Ans.(d)
Sol. B 4 S T U V K 3 % F @ © L N 5 P 1 O $ E 2 D C 6 # 9 Z Q 8 W * M A

S27. Ans.(b)
Sol. B 4 S T U V K 3 % F @ © L N 5 P 1 O $ E 2 D C 6 # 9 Z Q 8 W * M A

S28. Ans.(b)

S29. Ans.(e)

S30. Ans.(b)
Sol. There is only one pair.

A N I K E T

S31. Ans.(c)
Sol. Sathyarthi's position from left end = 10th
Sathyarthi's position from right end = 17th
Total number of children in the row
= 10 + 17 – 1 = 26

S32. Ans.(d)
Sol. After following given directions, Prem is 5 km and in north-east direction from the starting point.

S33. Ans.(d)
Sol.

ANT	SAW	EAR	ANSWER
732	574	871	735481

S34. Ans.(c)
Sol. 2+90÷4×4-8=84

S35. Ans.(d)
Sol.

K(-)
|
H(-) —— U(+)
|
I(-) —— L

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S36. Ans.(a)
Sol. Total markers sold by Deepak = 450 + 650 + 550 = 1650
Total markers sold by Inder = 800 + 750 + 650 = 2200
Required % = $\frac{2200-1650}{2200} \times 100 = \frac{550}{2200} \times 100$
= 25%

S37. Ans.(d)
Sol. 'Y' markers sold by all the fives sellers = 650 + 500 + 500 + 900 + 750 = 3300
'Z' marker sold by all the five sellers = 550 + 700 + 600 + 750 + 650 = 3250
Required ratio = $\frac{3300}{3250} = \frac{66}{65}$

S38. Ans.(b)
Sol. Average number of marker sold by Yogesh
$= \frac{600+500+700}{3} = 600$
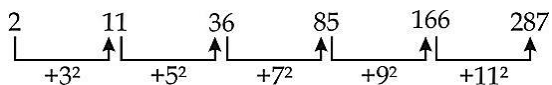Average number of marker sold by Aman
$= \frac{400+500+600}{3} = 500$
Required difference = 600 – 500 = 100

S39. Ans.(e)
Sol. 'X' type marker sold by Yogesh, Shubham and Aman together = 600 + 750 + 400 = 1750
'Z' type marker sold by Yogesh, Shubham and Inder together = 700 + 750 + 650 = 2100
Required % = $\frac{2100-1750}{2100} \times 100 = 16\frac{2}{3}\%$
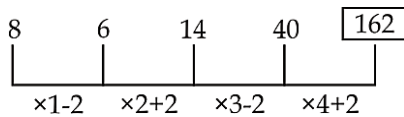
S40. Ans.(c)
Sol. Required difference
= (450 + 650 + 550 + 600 + 500 + 700 + 400 + 500 + 600) – (750 + 900 + 750 + 800 + 750 + 650)
= 4950 – 4600 = 350

S41. Ans.(b)
Sol.

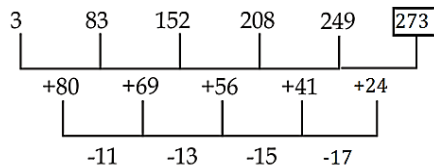| 16	20	28	44	76
	+4	+8	+16	+32

S42. Ans.(b)
Sol.

2   11   36   85   166   287
  $+3^2$ $+5^2$ $+7^2$ $+9^2$ $+11^2$

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S43. Ans.(d)
Sol.

8   6   14   40 $\boxed{162}$

×1-2   ×2+2   ×3-2   ×4+2

S44. Ans.(e)
Sol.

3   83   152   208   249 $\boxed{273}$

+80   +69   +56   +41   +24

-11   -13   -15   -17

S45. Ans.(c)
Sol.

              $\boxed{210}$

2   14   70   ?   420

×7   ×5   ×3   ×2
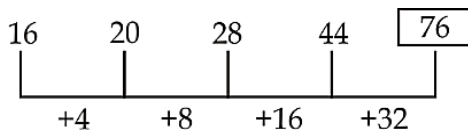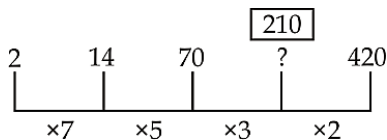
S46. Ans.(a)
Sol. Let, amounted invested by A, B and C is 'a', 'b' and 'c' respectively.

ATQ.

a + c = 2b ... (i)

a + b = 3c ... (ii)

on solving (i) & (ii) we get

4a = 5b & 3b = 4c $\Rightarrow$ a : b : c

5 : 4 : 3

Ratio of profit

A   :   B   :   C

5×6 : 4×9 : 3×12

5   :   6   :   6

B's profit $= \frac{6}{17} \times 3400 = 1200$

S47. Ans.(e)
Sol. Let, Number of males in village = x
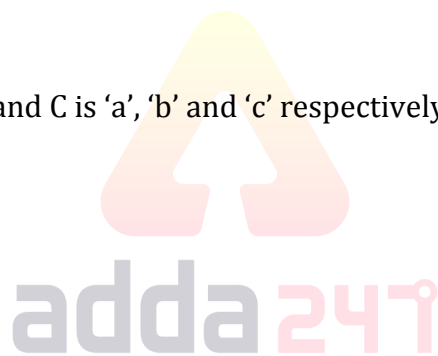
And, number of females in village = y

ATQ,

x + y = 4500 ....(i)

1.15x + 1.25y = 5325 ... (ii)

On solving (i) & (ii)

x = 3000, y = 1500

Required % $= \frac{3000}{1500} \times 100 = 200\%$

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S48. Ans.(b)

Sol. Volume of spherical ball = Volume of 2 cylinder

$\frac{4}{3} \times \pi \times (12)^3 = 2 \times \pi \times 8^2 \times h \Rightarrow h = 18$ cm

S49. Ans.(b)

Sol. Let speed of man in still water be S_B km/hr and speed of stream be S_S km/hr

$\frac{30}{S_B - S_S} + \frac{44}{S_B + S_S} = 10$

$\frac{40}{S_B - S_S} + \frac{55}{(S_B + S_S)} = 13$

Take $\frac{1}{S_B - S_S} = a, \frac{1}{S_B + S_S} = b$

$30a + 44b = 10 \dots$ (i)

$40a + 55b = 13 \dots$ (ii)

On solving (i) and (ii)

$S_B = 8$ km/hr

S50. Ans.(e)

Sol. Let wine and water be 5x litre and x litre respectively

Now, $\frac{5x}{x+5} = \frac{5}{2} \Rightarrow 10x = 5x + 25 \Rightarrow x = 5$

$\Rightarrow$ 25 : 5 | 25 : 10

      Before mixture | After mixture

Quantity of wine = 25ℓ

S51. Ans.(b)

Sol. Let 'X', 'Y' and 'Z' can complete a, b and c unit of work in one day.

ATQ,

a + c = b ... (i)

b + c = 5a ... (ii)

On solving (i) and (ii)

$a = \frac{b}{3} = \frac{c}{2}$

$\Rightarrow$ a : b : c

  1 : 3 : 2

(1 + 3+2) unit of work → 1 day

(6) unit of work → 1 day

z alone = $\frac{6}{2}$ day = 3 days

S52. Ans.(b)

Sol. Use mixture and allegation

If cost price of Bat = 75

Profit on Bat = $75 \times \frac{40}{100} = 30$

If cost price of Ball = 75

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Loss on Ball $= 75 \times \frac{60}{100} = -45$

Price of Bat : Price of Ball

30   –45

20

65 : 10

Cost price of Bat = 65

S53. Ans.(d)
Sol. Distance travelled by Aman in 2 hours = 25 × 2 = 50 km

Now, distance between Aman and Sandeep at 4 : 00 p.m.

= 410 – 50 = 360 km

Time to cross each other $= \frac{360}{35+25} = 6$ hour

Required time = 4 : 00 + 6 hour = 10 : 00 p.m.

S54. Ans.(c)
Sol. Let sum = Rs. 250

C.I. for 3 year at 20% pa $= 250 \times \left(\frac{12}{10}\right)^3 - 250$

= 182

SI for 3 year at 20% pa $= \frac{250 \times 3 \times 20}{100} = 150$

Difference = 182 – 150 = 32 → 176

$\Rightarrow$ Sum $= \frac{176}{32} \times 250 = 1375$

Required Interest $= \frac{1375 \times 2 \times 10}{100} = 275$

OR

Alternate method

Difference $= \frac{P\ r2}{100^2} \times \frac{(300+r)}{100}$

$176 = \frac{P \times 20^2}{100^2} \times \frac{(300+20)}{100}$

Therefore,

P = 1375

Required Interest $= \frac{1375 \times 2 \times 10}{100} = 275$

S55. Ans.(b)
Sol. The number which should be divisible by 4 will end with 32, 52, 72, 92, 36, 56, 76 and 96 (Total 8 ways)

Starting two numbers can be chosen in 4 × 3 = 12 ways

Total no. of ways = 12 × 8 = 96 ways

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S56. Ans.(a)

Sol. $2652 - 441 + 928 - \frac{1}{15} \times 3375 = ? + 961$

$2652 - 441 + 928 - 225 - 961 = ?$

$? = 1953$

S57. Ans.(c)

Sol. $9240 \times \frac{1}{?} = 330 \Rightarrow ? = 28$

S58. Ans.(e)

Sol. $\frac{1}{17} \times 4913 - 225 = (?)^2$

$(?)^2 = 64 \Rightarrow ? = 8$

S59. Ans.(b)

Sol. $? \times 1211 = 24220 \Rightarrow ? = 20$

S60. Ans.(d)

Sol. $240 \times 300 \times \frac{1}{240} = ? + 240$

$? = 300 - 240 \Rightarrow ? = 60$

S61. Ans.(b)

Sol. $\frac{5}{4} \times 92 - 16 + ? = 101$

$99 + ? = 101 \Rightarrow ? = 2$

S62. Ans.(d)

Sol. $(3 + 4 + 9 + 6) + \left(\frac{1}{2} + \frac{3}{4} + \frac{3}{4} + \frac{7}{8}\right) = ? + \frac{23}{8} + 19$

$22 + \frac{23}{8} = ? + \frac{23}{8} + 19 \Rightarrow ? = 3$

S63. Ans.(e)

Sol. $34 - 12 + 178 - (?)^2 = 45 + 55$

$200 - 100 = (?)^2$

$(?)^2 = 100 \Rightarrow ? = 10$

S64. Ans.(a)

Sol. $3996 - 3721 - (?)^2 = 3150 - 100 - 3000$

$275 - (?)^2 = 50$

$(?)^2 = 225 \Rightarrow ? = 15$

S65. Ans.(e)

Sol. $14 + 289 - 3 = ? - 632 \Rightarrow ? = 932$

S66. Ans.(c)
Sol. Let Speed of stream be x kmph.

ATQ,

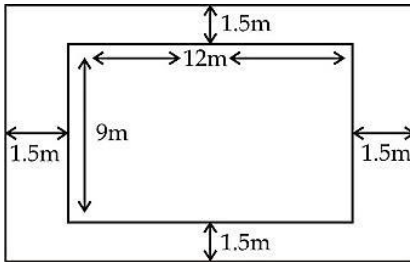$$\frac{21}{5.5+x} = \frac{12}{5.5-x}$$

38.5 – 7x = 22 + 4x

16.5 = 11x ⇒ x = 1.5 kmph

S67. Ans.(e)
Sol.

B and C will complete the remaining work in 2 days

S68. Ans.(a)
Sol.

Area of rectangular path = [15 × 12] – [12 × 9]

= 180 – 108 = 72 m^2

S69. Ans.(d)
Sol. Required probability $= \frac{^{12}C_2 + ^{36}C_2}{^{52}C_2} = \frac{116}{221}$

S70. Ans.(c)
Sol. Let population of city A be x

$$x \times \frac{110}{100} \times \frac{88}{100} = \frac{1}{7} \times 13552$$

⇒ x = 2000

S71. Ans.(b)
Sol. The given passage revolves around drastic increase in food prices, thus resulting in inflation. Also, there has been a diversion of certain food commodities (corn and edible-oil) to bio-fuels, which has disturbed the demand and supply chain. There has been an acute shortage of food commodities because the farmers are not provided with adequate incentives to increase the supply of food and agricultural products. Therefore, we can say that the theme of the passage is 'the worldwide acute shortage of food commodities'.

S72. Ans.(b)
Sol. The third paragraph of the passage states that there has been a diversion of food (corn and edible oils) to bio-fuels which has resulted in huge increase in food prices.

S73. Ans.(a)
Sol. The fourth paragraph of the passage states that the recent reduction in interest rates in the U.S. and injection of liquidity have prompted investors to look towards commodity markets.

S74. Ans.(d)
Sol. According to the fourth paragraph of the passage, the weakening of U.S. dollar and volatility in commodity markets exhibit a cause-effect relationship.

S75. Ans.(e)
Sol. The given passage highlights that at present, the demand for food items is higher as compared to the supply of food items. Also, the preference has shifted from filling the empty stomach to filling the fuel tank of automobiles. Furthermore, farmers are not provided with adequate incentives to increase the supply of food and agricultural products. Therefore, options (A), (B) and (C) can be inferred from the passage.

S76. Ans.(c)
Sol. According to the passage, the current global situation is very serious and food prices are increasing drastically. To overcome the escalation in food prices, farmers should be motivated and provided with adequate incentives to increase the supply of food and agricultural products.

S77. Ans.(a)
Sol. According to the fourth paragraph of the passage, the relatively easy liquidity and reduction in interest rates have resulted in erratic behavior of commodity markets.

S78. Ans.(c)
Sol. In context of the passage, 'no government would prefer to fill the fuel tanks of automobiles rather than filling the stomach of the people' is false as per the last paragraph of the passage.

S79. Ans.(d)
Sol. 'This phenomenon' mentioned in the fourth paragraph of the passage refers to weakening of the U.S. dollar and subsequent fluctuation in commodity markets.

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S80. Ans.(e)
Sol. 'Volatility' means tendency to change in a sudden way. 'Steady' is opposite in meaning to the given word.

S81. Ans.(b)
Sol. Replace 'outlived their lives' with 'outlived their life'.

S82. Ans.(e)
Sol. No correction required.

S83. Ans.(c)
Sol. Replace 'state has best practice' with 'states have best practices'

S84. Ans.(a)
Sol. Replace 'simple time to a more' with 'simpler time to a more'.

S85. Ans.(b)
S86. Ans.(d)
S87. Ans.(a)
S88. Ans.(c)
S89. Ans.(e)
S90. Ans.(b)

S91. Ans.(b)
Sol. The sequence after the rearrangement of sentences is **DAECB**.

S92. Ans.(d)
Sol. The sequence after the rearrangement of sentences is **DAECB**.

S93. Ans.(d)
Sol. The sequence after the rearrangement of sentences is **DAECB**.

S94. Ans.(d)
Sol. The sequence after the rearrangement of sentences is **DAECB**.

S95. Ans.(b)
Sol. The sequence after the rearrangement of sentences is **DAECB**.

S96. Ans.(d)
Sol. 'encouraging' is the correct spelling.

S97. Ans.(d)
Sol. 'thought' will be used in place of 'taught'.

S98. Ans.(b)
Sol. 'defensive' is the correct use instead of 'defence' as 'defence' is a noun which means protection and 'defensive' is an adjective which means protective. Moreover, 'mechanism' is a noun whose quality will be determined by an adjective.

S99. Ans.(d)
Sol. 'disposal' will be the correct spelling.

S100. Ans.(b)
Sol. 'Genuinely' will be the correct spelling.

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