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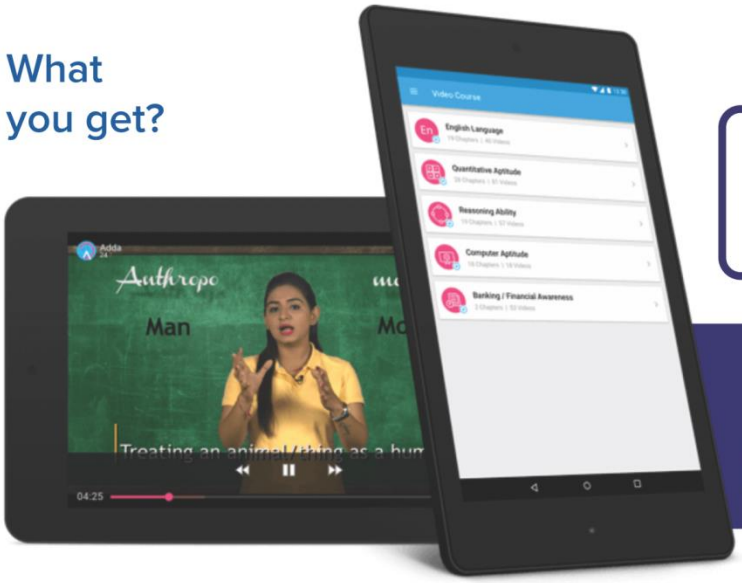

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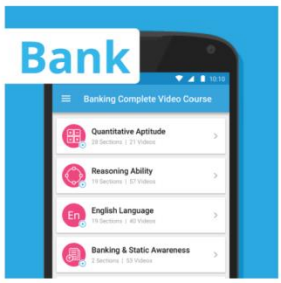

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Solutions

Solution (1-5):

Year	Age	Persons
1947	70year	A
1953	64year	E
1958	59year	H
1967	50year	G
1974	43year	C
1982	35year	D
1994	23year	B
2002	15year	F

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

Solution (6-10):

S6. Ans.(a)
Sol. 50643218 = @Z*LESBQ
Note: Use condition (i).

S7. Ans.(d)
Sol. 65392183= *QE#SB@*
Note: Use condition (iv) .

S8. Ans.(d)
Sol. 30246589= XZSL*Q@X
Note: Use condition (iii)

S9. Ans.(a)
Sol. 43062508= @EZ*SQZ@
Note: Use condition (ii).

S10. Ans.(d)
Sol. 35070462= SQ^%ZL*E
Note: Use condition (v) and (i).

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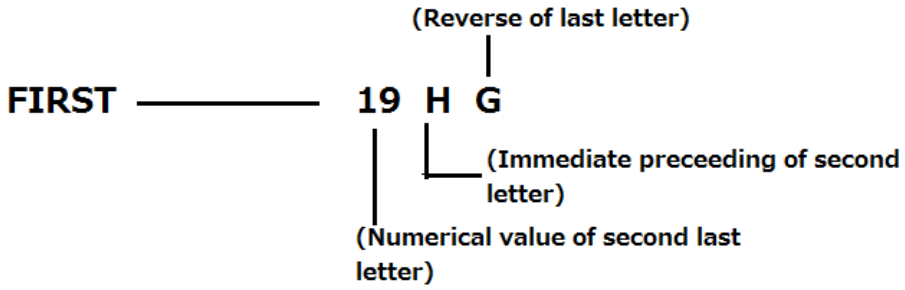
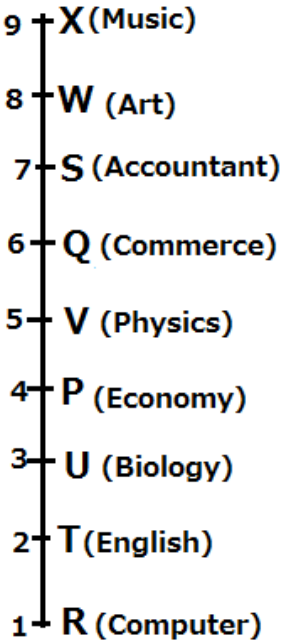
Solution (11-15):

These are the latest pattern of coding-decoding questions. In these questions we are applying following concept:-



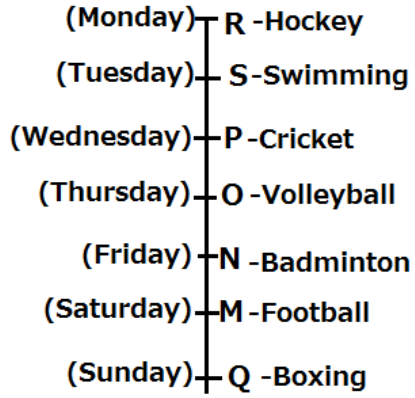
S11. Ans. (d)
S12. Ans. (d)
S13. Ans. (a)
S14. Ans. (a)
S15. Ans. (b)

Solution (16-20):



S16. Ans.(d)
S17. Ans.(b)
S18. Ans.(b)
S19. Ans.(a)
S20. Ans.(d)

Solution (21-25):

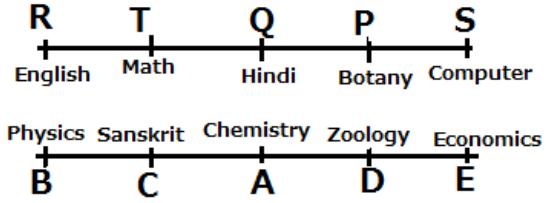


S21. Ans.(e)
S22. Ans.(e)
S23. Ans.(a)
S24. Ans.(d)
S25. Ans.(e)

Solution (26-30):

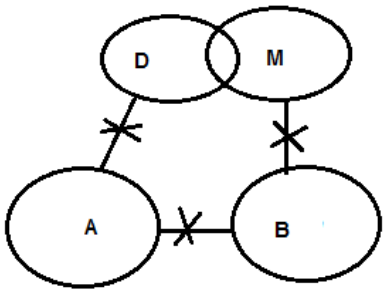
S26. Ans.(a)
S27. Ans.(b)
S28. Ans.(c)
S29. Ans.(d)
S30. Ans.(c)

Solution (31-35):

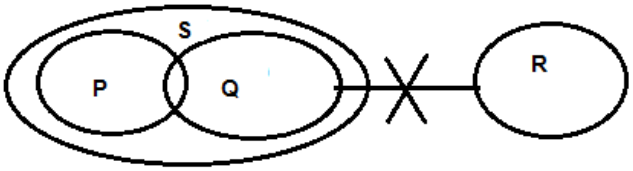


S31. Ans.(d)
S32. Ans.(b)
S33. Ans.(d)
S34. Ans.(c)
S35. Ans.(e)

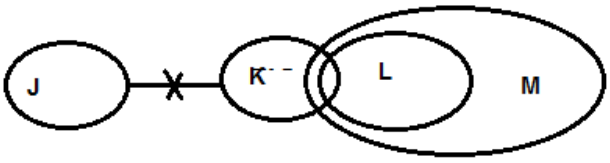
S36.Ans.(a)
Sol.



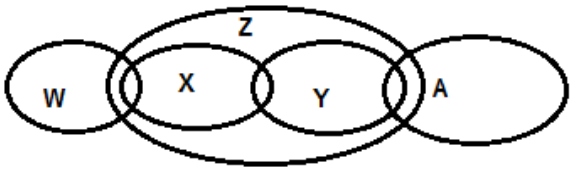
S37.Ans.(b)
Sol.



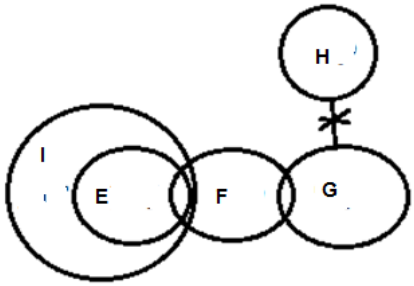
S38.Ans.(a)
Sol.



S39.Ans.(c)
Sol.



S40.Ans.(a)
Sol.



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S41. Ans.(c)
Sol. Let fares of different class,
First class = 10x
Second class = 7x
Third class = 2x
Then increased fares;
First class = $10x + \frac{1}{4} \times 10x = 12.5x$
Second class = $7x + \frac{1}{8} \times 7x = \frac{63}{8}x$
third class = $2x - \frac{10 \times 2x}{100} = 1.8x$
Ratio of passengers = 4 : 9 : 17
Assume passengers in first class, second class and third class are 4y, 9y and 17y respectively
Then total fare = $4y \times 12.5x + 9y \times \frac{63}{8}x + 17y \times 1.8x$
$60590 = 50xy + 70.875xy + 30.6xy$
$60590 = 151.475xy$
$\Rightarrow xy = 400$
Amount received from third class = $17y \times 1.8x = 12240$

S42. Ans.(a)
Sol. No. of ways when none is women = ${}^{4}C_{3} = 4$
Total possible way = ${}^{9}C_{3} = 84$
Required ways = 84 – 4 = 80.

S43. Ans.(a)
Sol.
AUCTION $\Rightarrow$ AUIOCTN
Required no. of ways of arrangement = 4! × 4! = 576

S44. Ans.(b)
Sol. Total possible arrangement = (2 + 4)! = 6! = 720
When two girls sit together,
2! × 5! = 240
Required answer = 720– 240 = 480

S45. Ans.(a)
Sol. **Case I:** - 6 _ _ _ _ 5
4 empty place can be filled by 2, 9, 7, 4.
So, ways = 4! = 24
Case II: - 5 _ _ _ _ 6
Then possible no. of ways = 4! = 24
Total arrangements = 24 + 24 = 48

S46. Ans.(b)
Sol. Total ways = $19_{C_4} = 3876$
⇒ Favorable case, (selecting 4 red or any 2 green balls)
= $6_{C_4} + 5_{C_2} \times 14_{C_2}$
= 925
Required probability = $\frac{925}{3876}$

S47. Ans.(b)
Sol. n(s) = $7_{C_2} = 21$
n(E) = $5_{C_2} = 10$
Required answer = $\frac{10}{21}$

S48. Ans.(a)
Sol. Total possible outcomes = $28_{C_2} = 14 \times 27$
Favorable outcomes = $20_{C_1} \times 8_{C_1} + 8_{C_2}$
= 188
Required probability = $\frac{188}{14\times27} = \frac{94}{189}$

S49. Ans.(c)
Sol. Required probability = $\frac{^4C_2+^3C_2+^5C_2}{^{12}C_2}$
$= \frac{3+6+10}{6\times11} = \frac{19}{66}$

S50. Ans.(c)
Sol. Required probability = $\frac{^{13}C_3}{^{18}C_3} = \frac{11\times12\times13}{16\times17\times18} = \frac{143}{408}$C

S51. Ans.(d)
Sol.
$\frac{A+B}{S_A+S_B} = 12$
I. A + B = 450 meters
II. $S_A > S_B$
We can see, the given data are not sufficient.

S52. Ans.(d)
Sol. Area of rectangle = area of triangle
Given, Base = 40 cm
Height = 50 cm
From given data, we can't conclude length of rectangle.

S53. Ans.(c)
Sol.
I. From given data,
Rate = $\frac{100\times100}{1000} = 10\%$
C.I. $= 1000\left[\left(1+\frac{10}{100}\right)^3 - 1\right]$
= 1331 – 1000 = 331
II. $10 = 1000\left[\frac{R^2}{100^2}\right]$
$\Rightarrow R^2 = \frac{10\times100\times100}{1000}$
R = 10%
Now, we can calculate compound interest
So, both statements alone are sufficient to answer the question.

S54. Ans.(e)
Sol. $x > y$, no. is $10x + y$
I. $x - y = 5$
II. $x + y = 7$
By solving both equations,
x = 6, y= 1.
So both statements together are necessary to answer the question.

S55. Ans.(d)
Sol. Neither the distance between A & B is given nor the speed of stream is given. So we can't conclude the answer from both the statements.

S56. Ans.(e)
Sol. A ⇒ 75 – 60 = 15
B ⇒ 81 – 80 = 1
C ⇒ 90 – 6 = 84
D ⇒ 90 – 85 = 5
E ⇒ 77 – 60 = 17
F ⇒ 87 – 65 = 22
Required model = B

S57. Ans.(a)
Sol. Blue coloured car of
Model E and D sold in Metro H = 43 + 37 = 80,000
Which is equal to white coloured car of B model in metro M.

S58. Ans.(e)
Sol. Required difference = 50 – 34 = 16000

S59. Ans.(c)
Sol. Required % = $\frac{173}{192} \times 100 \approx 90\%$.

S60. Ans.(a)
Sol. White C – 90
Blue B – 60
Silver B – 20
White D – 85
Silver F – 52

S61. Ans.(c)
Sol. $\frac{x}{100} \times 540 = 603 - 360$
$x = \frac{24300}{540}$
$x = 45$

S62. Ans.(a)
Sol. 3692

S63. Ans.(d)
Sol. $\frac{27}{8} \times \frac{22}{5} + x = 16$
$x = 16 - \frac{27 \times 11}{20}$
$x = \frac{23}{20} = 1\frac{3}{20}$

S64. Ans.(a)
Sol. 147.175

S65. Ans.(e)
Sol. $448 - \frac{x}{100} \times 400 = 180$
$x = \frac{268}{4} = 67$

S66. Ans.(b)
Sol. Required average = $\frac{(30 + 25 + 50 + 40)}{4} \times 1000$
= $36.25 \times 1000 = 36250$

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S67. Ans.(c)

Sol. Required % = $\frac{15}{40} \times 100 = 37\frac{1}{2}\%$

S68. Ans.(d)

Sol. Required % increase = $\frac{50-30}{30} \times 100$

$= \frac{200}{3}\% = 66\frac{2}{3}\%$

S69. Ans.(b)

Sol. In year 2011 = $\frac{15-20}{20} \times 100$

$= -\frac{5}{20} \times 100 = -25\%$

In year 2012 = $\frac{40-15}{15} \times 100 = 166\frac{2}{3}\%$

In year 2013 = $\frac{45-40}{40} \times 100 = 12.5\%$

In year 2014 = $\frac{37.5-45}{45} \times 100 = -16.67\%$

In year 2015 = $\frac{30-37.5}{37.5} \times 100 = -20\%$

S70. Ans.(c)

Sol. From the graph the maximum difference is in the year 2011 and 2012.

S71. Ans.(e)

Sol. Required fund = (38 – 12)% of 160000000

= Rs. 41600000

S72. Ans.(a)

Sol. Required remaining amount

= 42% of 16 cr – 25% of 16 cr

= 17% of 16 cr

= 2.72 crore

S73. Ans.(a)

Sol. Required % = $\frac{16}{38} \times 100 = 42.11\%$

S74. Ans.(c)

Sol. Required amount = 35% of 16 crore

$= \frac{35 \times 16}{100}$ = Rs. 5.6 crore

S75. Ans.(c)

Sol. Fund acquired = 42% of 16 crore

$= \frac{42 \times 16}{100}$ = Rs. 6.72 crore

S76. Ans.(e)

Sol.

I. $x^2 - x - 12 = 0$

$\Rightarrow x^2 - 4x + 3x - 12 = 0$

$\Rightarrow x(x - 4) + 3(x - 4) = 0$

$\Rightarrow x = 4, -3$

II. $y^2 + 5y + 6 = 0$

$\Rightarrow y^2 + 3y + 2y + 6 = 0$

$\Rightarrow y(y + 3) + 2(y + 3) = 0$

$\Rightarrow y = -2, -3$

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

S77. Ans.(a)

Sol.

I. $x^2 - 8x + 15 = 0$

$\Rightarrow x^2 - 5x - 3x + 15 = 0$

$\Rightarrow x(x - 5) - 3(x - 5) = 0$

$\Rightarrow x = 5, 3$

II. $y^2 - 3y + 2 = 0$

$\Rightarrow y^2 - 2y - y + 2 = 0$

$\Rightarrow y(y - 2) - 1(y - 2) = 0$

$\Rightarrow y = 1, 2$

$\therefore x > y$

S78. Ans.(c)

Sol.

I. $x^2 - 32 = 112$

$\Rightarrow x^2 = 112 + 32$

$\Rightarrow x = \pm 12$

II. $y = \sqrt{169}$

$\Rightarrow y = 13$

$\therefore y > x$

S79. Ans.(b)
Sol.
I. $x - \sqrt{121} = 0$
$\Rightarrow x = \sqrt{121}$
$\Rightarrow x = 11$
II. $y^2 - 121 = 0$
$\Rightarrow y^2 = 121$
$\Rightarrow y = \pm 11$
$\therefore x \geq y$

S80. Ans.(d)
Sol.
I. $x^2 - 16 = 0$
$\Rightarrow x^2 = 16$
$\Rightarrow x = \pm 4$
II. $y^2 - 9y + 20 = 0$
$\Rightarrow y^2 - 5y - 4y + 20 = 0$
$\Rightarrow y(y - 5) - 4(y - 5) = 0$
$\Rightarrow 5, 4$
$\therefore y \geq x$

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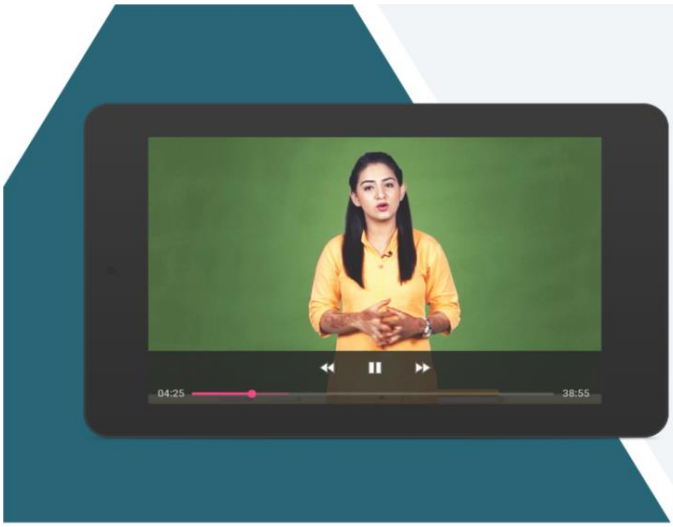

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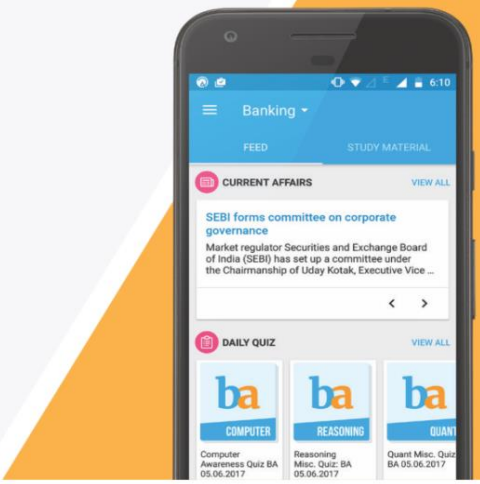

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