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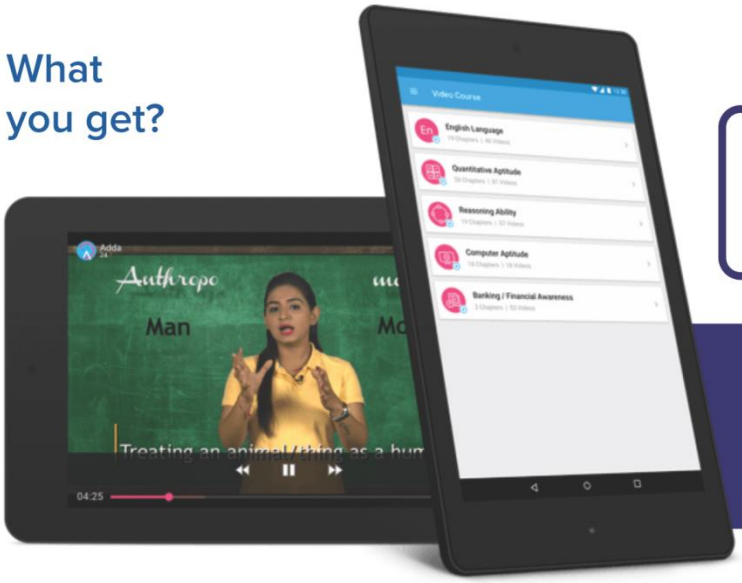

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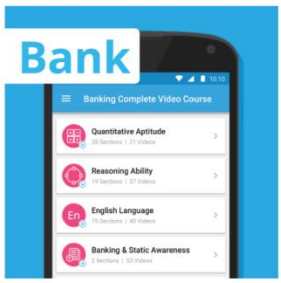

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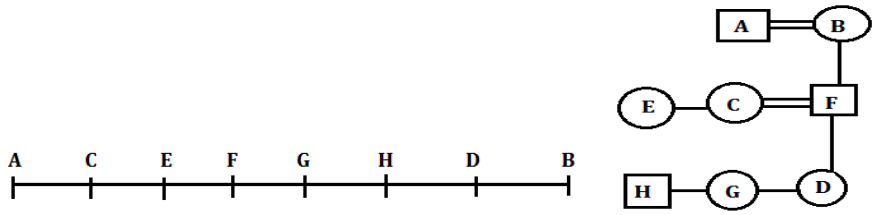
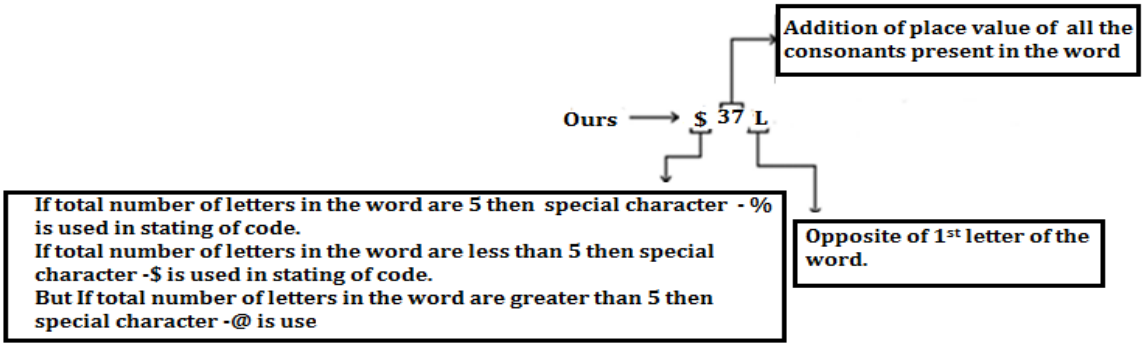
Solutions

Direction (1-5)



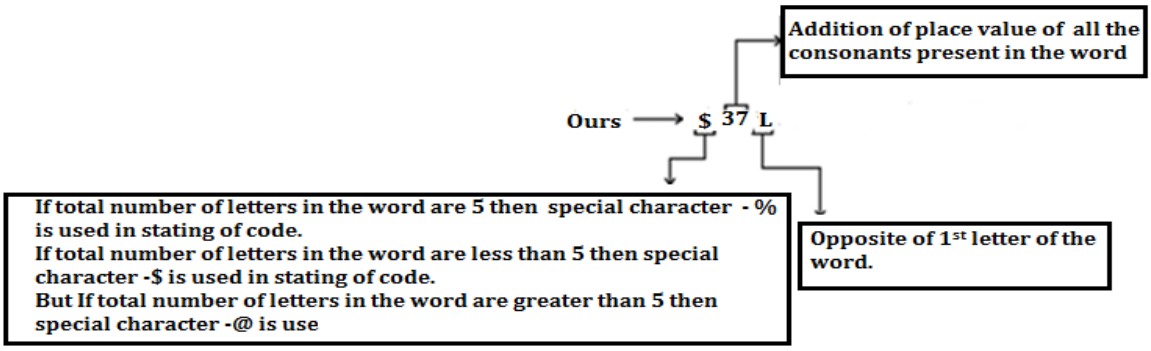
S1. Ans.(a)
S2. Ans.(c)
S3. Ans.(a)
S4. Ans.(b)
S5. Ans.(a)

S6. Ans. (a)
Sol.
This is question of Coding-Decoding based on new pattern. In these questions following logic's are applied to decode the code:-
1st letter of the code:- If total number of letters in the word are 5 then special character - % is used in stating of code.
If total number of letters in the word are less than 5 then special character -$ is used in stating of code.
But If total number of letters in the word are greater than 5 then special character -@ is used in stating of code.
2nd letter of the code:- Addition of place value of all the consonants present in the word.
3rd letter of the code:- Opposite of 1st letter of the word.

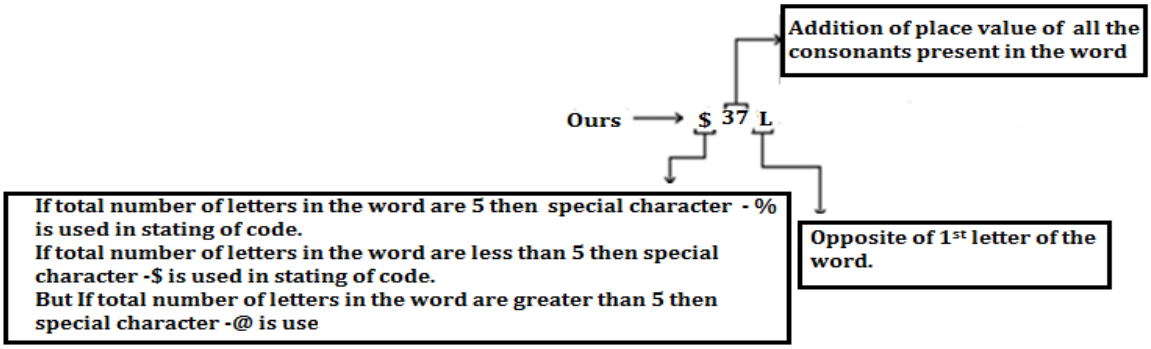


S7. Ans. (b)
Sol.
This is question of Coding-Decoding based on new pattern. In these questions following logic's are applied to decode the code:-
1st letter of the code:- If total number of letters in the word are 5 then special character - % is used in stating of code.

If total number of letters in the word are less than 5 then special character -$ is used in stating of code. But If total number of letters in the word are greater than 5 then special character -@ is used in stating of code.
2nd letter of the code:- Addition of place value of all the consonants present in the word.
3rd letter of the code:- Opposite of 1st letter of the word.

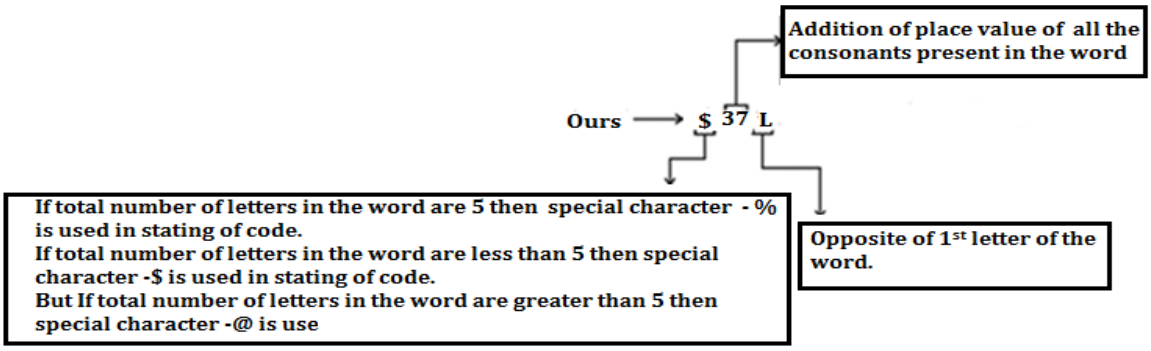


S8. Ans. (c)
Sol.
This is question of Coding-Decoding based on new pattern. In these questions following logic's are applied to decode the code:-
1st letter of the code:- If total number of letters in the word are 5 then special character - % is used in stating of code.
If total number of letters in the word are less than 5 then special character -$ is used in stating of code. But If total number of letters in the word are greater than 5 then special character -@ is used in stating of code.
2nd letter of the code:- Addition of place value of all the consonants present in the word.
3rd letter of the code:- Opposite of 1st letter of the word.



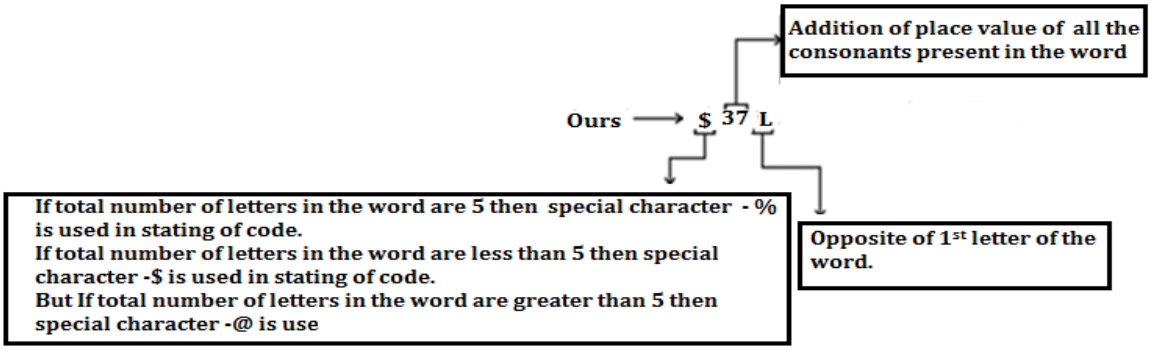
S9. Ans. (d)
Sol.
This is question of Coding-Decoding based on new pattern. In these questions following logic's are applied to decode the code:-
1st letter of the code:- If total number of letters in the word are 5 then special character - % is used in stating of code.
If total number of letters in the word are less than 5 then special character -$ is used in stating of code.

But If total number of letters in the word are greater than 5 then special character -@ is used in stating of code.
2nd letter of the code:- Addition of place value of all the consonants present in the word.
3rd letter of the code:- Opposite of 1st letter of the word.

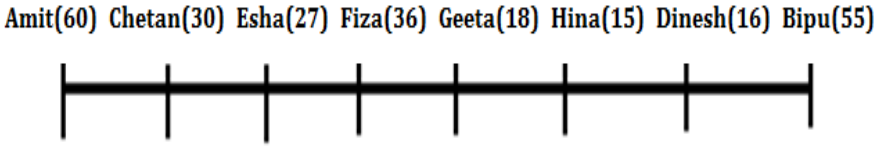


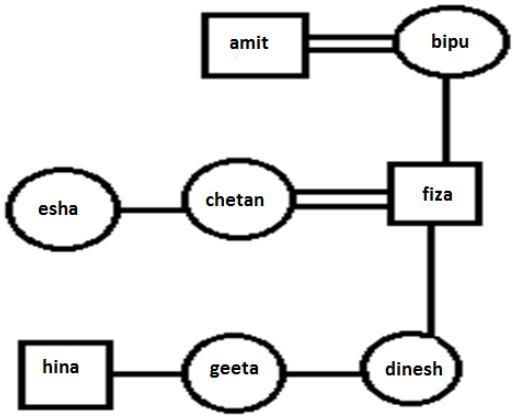
S10.Ans. (e)

Sol. This is question of Coding-Decoding based on new pattern. In these questions following logic's are applied to decode the code:-
1st letter of the code:- If total number of letters in the word are 5 then special character - % is used in stating of code.
If total number of letters in the word are less than 5 then special character -$ is used in stating of code.
But If total number of letters in the word are greater than 5 then special character -@ is used in stating of code.
2nd letter of the code:- Addition of place value of all the consonants present in the word.
3rd letter of the code:- Opposite of 1st letter of the word.



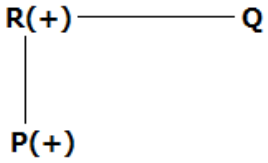
Solution (11-15)



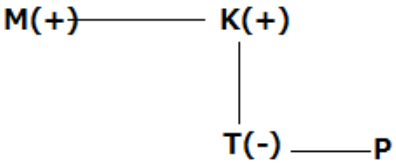


S11. Ans(a)
S12. Ans(c)
S13. Ans(a)
S14. Ans(b)
S15. Ans(a)

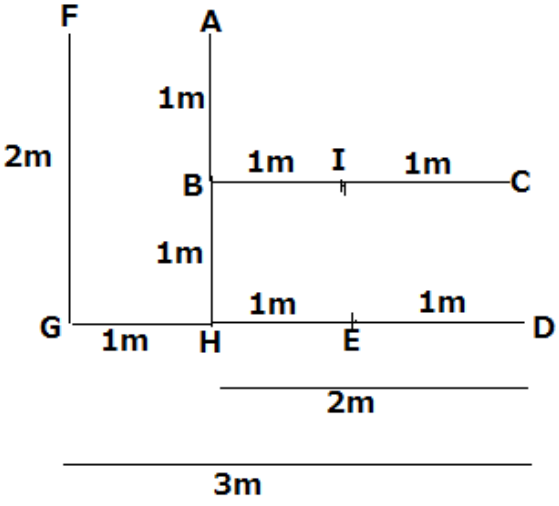
S16. Ans.(d)
Sol.



S17. Ans.(d)
Sol.

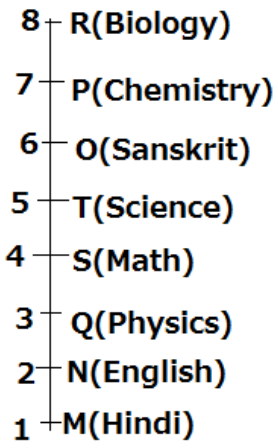


Solution (18-20):



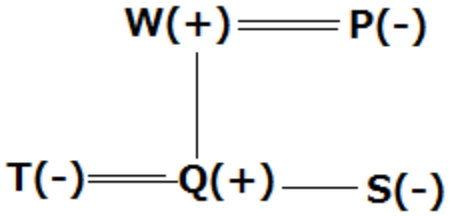
S18. Ans.(c)
S19. Ans.(a)
S20. Ans.(a)

Solutions (21-25):



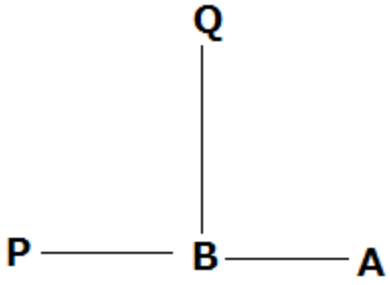
S21. Ans. (a)
S22. Ans. (c)
S23. Ans. (b)
S24. Ans. (c)
S25. Ans. (d)

S26. Ans. (e)
Sol. T is daughter in law of P.



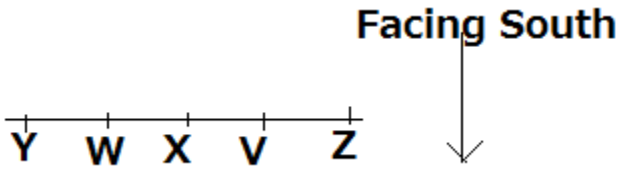
S27. Ans. (d)

S28. Ans. (b)
Sol.

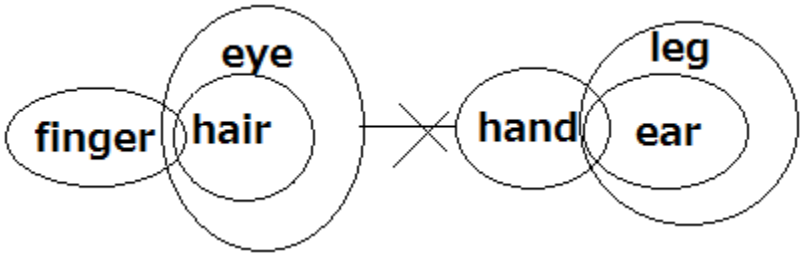


S29. Ans. (d)

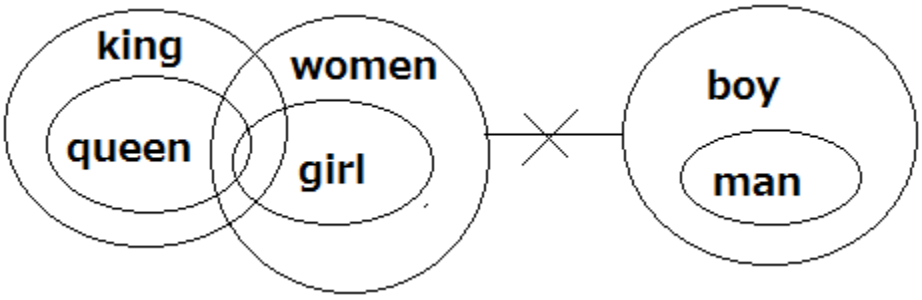
S30. Ans. (e)
Sol.



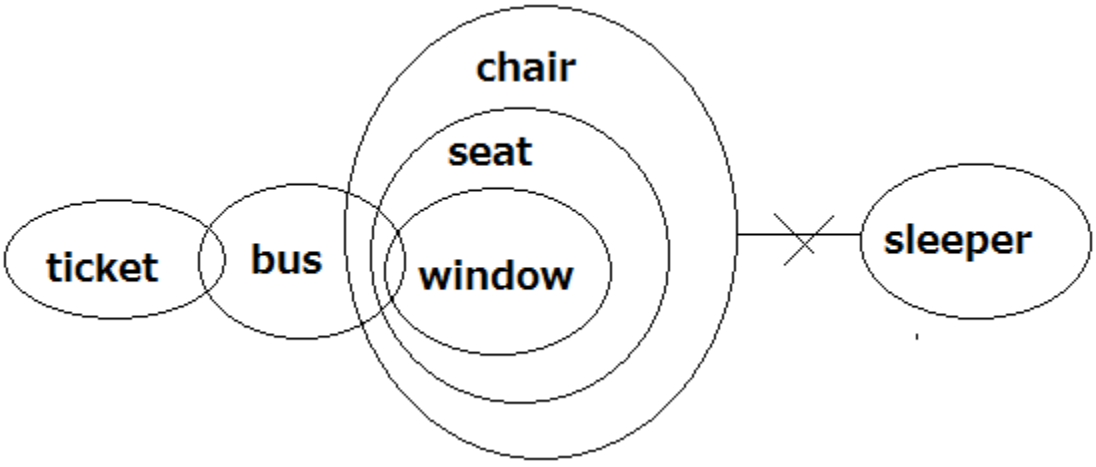
S31. Ans.(a)
Sol.



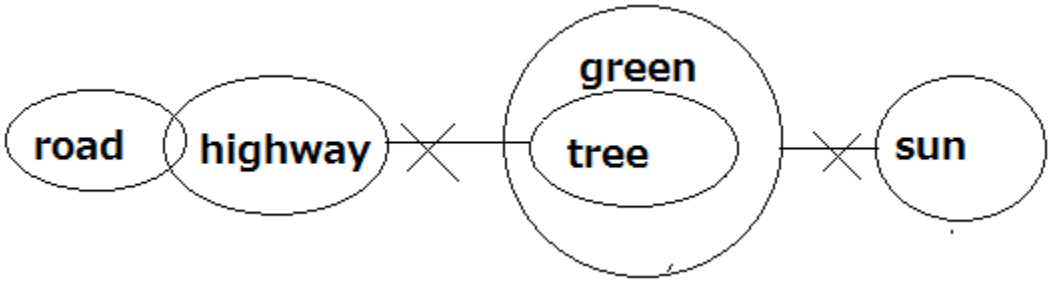
S32. Ans.(e)
Sol.



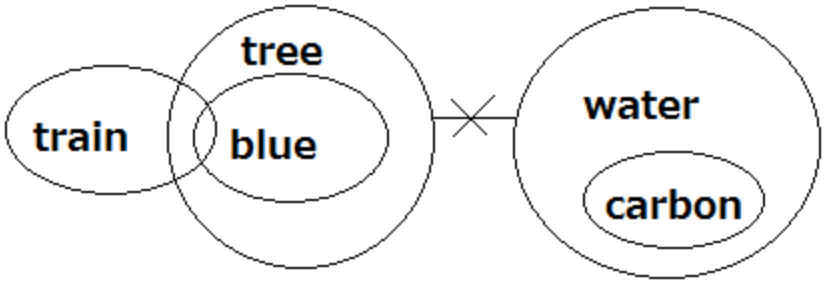
S33. Ans.(e)
Sol.



S34. Ans.(c)
Sol.



S35. Ans.(e)
Sol.



Solution(36-40):

Year	Age	Persons
1947	70year	F
1952	65year	G
1960	57year	E
1968	49year	A
1982	35year	D
1990	27year	C
1997	20year	B

S36. Ans.(c)
S37. Ans.(a)
S38. Ans.(b)
S39. Ans.(a)
S40. Ans.(b)

S41. Ans.(a)

Sol. Pattern is ×1, ×1.5, ×2.5, ×4, ×65, …

∴ ? = 1170 × (4 + 6.5) = 1170 × 10.5 = 12285

S42. Ans.(a)

Sol.

Pattern is +112, +125, +139, +154, +170

13 14 15 16

∴ ? = 820 + 154 = 974

S43. Ans.(b)

Sol. Pattern is $+2^3, +3, +4^3, +5, +6^3$

∴ ? = $81 + 6^3 = 297$

S44. Ans.(d)

Sol.

9 11 43 100 177 ?

2 32 57 77 92

+30 +25 +20 +15

? = 177 + 92 = 269

S45. Ans.(c)

Sol. Pattern is (×2–1), (×3+1), (×4–1), (×5+1), (×6–1)

∴ ? = 556 × 6 – 1 = 3335

S46. Ans.(c)

Sol.

$A = P + \frac{P \times R \times T}{100}$

P = 19,200 – 4,800 = Rs. 14400

Let each installment = Rs. x monthly

$A = \left[x + \left(x + \frac{x \times R \times 1}{100}\right) + \left(x + \frac{x \times R \times 2}{100}\right) + \ldots + \left(x + \frac{x \times R \times 4}{100}\right)\right]$

$\Rightarrow \left(14400 + \frac{14400 \times 12 \times 5}{100 \times 12}\right) = \left[x + \left(\frac{12x}{12 \times 100} + x\right) + \left(x + \frac{12x \times 2}{12 \times 100}\right) + \ldots + \left(x + \frac{12x \times 4}{1200}\right)\right]$

$\Rightarrow 15120 = 5x + \frac{x}{10}$

$\Rightarrow x = \frac{151200}{51}$

= Rs. 2964.70

S47. Ans. (c)

Sol. Given,

S_1 = Rs. 160, Loss = 20%

S_2 = ? and Gain % = 25 %

$\therefore S_2 = 160 \times \frac{100}{100-20} \times \frac{125}{100} = \text{Rs. } 250$

Hence, Percentage Increase in Selling Price = $\frac{250-160}{160} \times 100 = 56.25\%$

Desired Difference = $56.25\% - 20\% = 36.25\%$

S48. Ans. (a)

Sol.

$\% \text{ L} = \frac{\text{Sold for a rupee} - \text{Buy for a rupee}}{\text{Sold for a rupee}} \times 100 = \frac{50-46}{50} \times 100 = 8\%$

S49. Ans. (d)

Sol. Share of one grandchild = $\frac{1}{10} \times 1.25 = 0.125$ lakh

$\therefore$ Each son will get = $8 \times 0.125 = \text{Rs. } 1$ lakh

$\therefore$ Share of 3 sons = Rs. 3 lakhs

Hence, share of two daughters = $2 \times 1.25 = \text{Rs. } 2.5$ Lakh

Total share of sons and daughters = Rs. 5.5 lakhs

$\therefore$ Wife's share = $\frac{2}{5} \times 5.5 = \text{Rs. } 2.2$ lakhs

Now, share of three grandchildren = $3 \times 0.125 = \text{Rs. } 0.375$ lakh

$\therefore$ Required answer = Rs.(2.2 + 0.375)lakh = Rs. 257500

S50. Ans.(c)

Sol. Area of ground = $\frac{1000}{0.25} = 4000 \text{ m}^2$

Breadth = 50 m

Length = $\frac{4000}{50} = 80$ m

New length = $80 + 20 = 100$ m

New area = $100 \times 50 = 5000 \text{ m}^2$

So, expenditure = 5000×0.25 = Rs 1250

S51. Ans.(a)

Sol.

$\frac{\frac{325}{250}}{\frac{550}{375}} = \frac{325 \times 375}{250 \times 550} = 39 : 44$

S52. Ans.(c)

Sol. 2016 : No. of consumers = $\frac{220}{100}[225] = 495$ thousand

Electricity consumption = 550 Lacs

$\therefore$ Electricity consumption per consumer = $\frac{550 \times 100000}{495 \times 1000}$

$= 111$units per consumer

2015 : Electricity consumption per consumer = $\frac{550\times100000}{375000}$
$\approx$ 147 units per consumer
Hence, the Impact is reduction of 36 units per consumer

S53. Ans.(b)
Sol. Total consumer all over the year = 225 + 250 + 300 + 350 + 375 = 1500 thousand
Desired value = $\frac{325\times100000}{1500000} = 21.5$ times approx

S54. Ans.(d)
Sol. Total units in 2011 and 2013 = 650 Lacs
Total units in 2012 and 2014 = 900 Lacs
Desired value = $\frac{250}{900} \times 100 \approx 28\%$approx

S55. Ans.(c)
Sol. It is clear from the graph that unit consumption is highest in 2014 while consumers-electricity units difference is maximum as well. Hence, Ratio of unit consumption to the number of consumers is maximum in 2014.

S56. Ans.(a)
Sol.
$\approx \frac{576}{80} \times \frac{400}{40} \times \frac{900}{40} = 1620$

S57. Ans.(c)
Sol. $\approx 68 \times 14 - 14 \times 13 = 770$

S58. Ans.(d)
Sol. $\approx 5467 - 3245 + 1123 - 2310 = 1035$

S59. Ans.(c)
Sol. $\approx 40 \times 6 - 250 + 700 = 690$

S60. Ans.(b)
Sol.
$= \frac{52001 \times 29}{61 \times 41} = 600$

S61. Ans.(b)
Sol. Let, average no. of mistakes per page for remaining pages be x, then,
$1007 \times 2 = 434 + (1007 - 612) \times x$
or, $2014 = 434 + 395x$
or, $x = \frac{1580}{395} = 4$

S62. Ans.(b)
Sol.

$$\text{Required ratio} = \frac{\frac{25}{100}\times 2+\frac{75}{100}\times 3}{\frac{75}{100}\times 2+\frac{25}{100}\times 3}$$

$$=\frac{\frac{2}{4}+\frac{9}{4}}{\frac{6}{4}+\frac{3}{4}}$$

$$=\frac{11}{9}$$

S63. Ans.(b)
Sol. Let, A have 'x' no. of guavas
And B have 'y' no. of guavas
ATQ,

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

or, $\frac{x}{2}=y+2$ …….(i)
and,

$$y+\frac{7}{10}y=x-\frac{7y}{10}+4$$

or, $12y = 5x + 20$ ……..(ii)
solving (i) and (ii),
$x = 44, y = 20$
Total guavas = 44 + 20 = 64

S64. Ans.(c)
Sol. Cost price for retailer = $30.09\times\frac{4}{5}=24.072$
Cost price for manufacturer = $24.072\times\frac{100}{120}\times\frac{100}{118}$

$$=24.072\times\frac{5}{6}\times\frac{50}{59}$$

$= 17$

S65. Ans.(b)
Sol. Total selling price = $7200 \times 10 = 72000$
Total no. of pens manufactured = $7200\times\frac{10}{9}=8000$
Total cost price of pens = $72000\times\frac{100}{125}=57600$
Cost of each pen = $\frac{57600}{8000}=7.2$

S66. Ans.(e)
Sol. 1981 – 1562.5 + 1728 = ? – 26.49
? = 2172.98

S67. Ans.(c)
Sol.
$4\sqrt{3} + 4\sqrt{5} + 4\sqrt{11} + 18 - 11 = ? + 7 + 4\sqrt{11}$
$? = 4(\sqrt{3} + \sqrt{5})$

S68. Ans.(b)
Sol. 50 + 9996 – 529 = 9517

S69. Ans.(c)
Sol.
$23 + \frac{28}{100} \times 280 - \frac{89}{100} \times 56$
$23 + 78.4 - 49.84 = 51.56$

S70. Ans.(c)
Sol.
$\frac{842}{25} \times \frac{1280}{37} + \frac{1848}{52} \times \frac{2089}{57}$
$1165.14 + 1302.45 = 2467.59$

Solution (71-75)-

	Total questions	Maximum marks	Attempt	Right question	Wrong question	Marks obtained
Reasoning	30	60	22	17	5	31.5
Computer	20	10	16	12	4	5.5
English	40	40	26	13	13	9.75
GA	40	30	23	15	8	9.75
Quant	40	60	35	28	7	52.5

S71. Ans.(c)
Sol. Total number of question = 170, no of questions left = 170 – 119 = 51

S72. Ans.(c)
Sol. Marks in GA = 9.75

S73. Ans.(a)
Sol. 17 – 5 = 12

S74. Ans.(c)
Sol. total marks obtained = 109

S75. Ans.(e)
Sol. Total number of incorrect questions = 122-85=37

S76. Ans.(c)
Sol.

I. $42p = 168$
$p = 4$

II. $\sqrt{q + 888} - \sqrt{144} = \sqrt{324}$
$\Rightarrow \sqrt{q + 888} = 18 + 12 = 30$
$\Rightarrow q = 900 - 888$
$\Rightarrow p = 12$

$p < q$

S77. Ans.(a)
Sol.

I. $144p^2 = 25$
$p = \pm\frac{5}{12}$

II. $36q = 21 - 6$
$q = \frac{15}{36} = \frac{5}{12}$

$p \leq q$

S78. Ans.(c)
Sol.

I. $\frac{2\sqrt{p}}{70} + \frac{3\sqrt{p}}{70} = \frac{7}{49\sqrt{p}}$
$\Rightarrow \frac{5\sqrt{p}}{70} = \frac{1}{7\sqrt{p}}$
$\Rightarrow p = 2$

II. $\frac{10}{\sqrt{q}} + \frac{2}{\sqrt{q}} = 4\sqrt{q}$
$\Rightarrow q = 3$

$p < q$

S79. Ans.(c)
Sol.

I. $3p^2 - 27p + 60 = 0$
$\Rightarrow 3p^2 - 15p - 12p + 60 = 0$
$\Rightarrow 3p(p - 5) - 12(p - 5) = 0$
$\Rightarrow p = 4, 5$

II. $4q^2 - 52q + 168 = 0$
$\Rightarrow 4q^2 - 52q + 168 = 0$
$\Rightarrow 4q^2 - 24q - 28q + 168 = 0$
$\Rightarrow 4q(q - 6) - 28(q - 6) = 0$
$\Rightarrow q = 6, 7$

$p < q$

S80. Ans.(d)
Sol.

I. $7p^2 - 21p - 33p + 99 = 0$
$\Rightarrow 7p(p - 3) - 33(p - 3) = 0$
$\Rightarrow p = 3, \frac{33}{7}$

II. $4q^2 - 10q - 6q + 15 = 0$
$\Rightarrow 2q(2q - 5) - 3(2q - 5) = 0$
$\Rightarrow q = \frac{3}{2}, \frac{5}{2}$

P>Q