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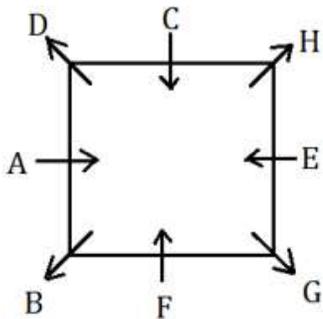


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Solutions

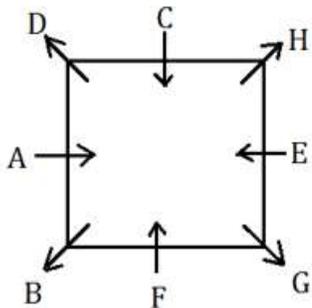
S1. Ans.(c)

Sol.



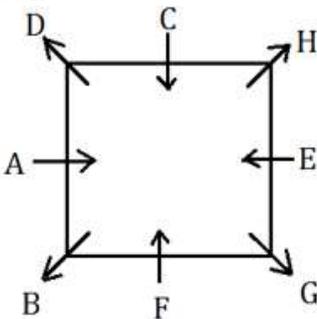
S2. Ans.(b)

Sol.



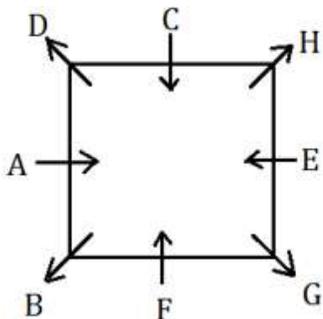
S3. Ans.(b)

Sol.



S4. Ans.(c)

Sol.



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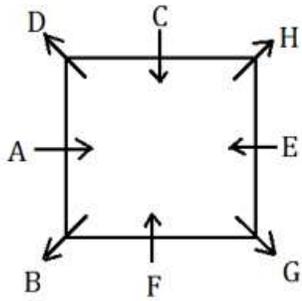

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S5. Ans.(e)

Sol.



S6. Ans.(b)

Sol. Only 465 will be divisible by 3 when added 3 to second digit of each number.

S7. Ans.(a)

Sol. 754 742 654 742 433

S8. Ans.(a)

Sol. $4 \div 2 = 2$

S9. Ans.(a)

Sol. 848 548 766 1043 644

S10. Ans.(a)

Sol. 745 742 564 247 343

S11. Ans.(b)

Sol.

Number	Box
7	I
6	Q
5	R
4	P
3	M
2	S
1	L



S12. Ans.(c)

Sol.

Number	Box
7	I
6	Q
5	R
4	P
3	M
2	S
1	L

S13. Ans.(d)

Sol.

Number	Box
7	I
6	Q
5	R
4	P
3	M
2	S
1	L



S14. Ans.(a)

Sol.

Number	Box
7	I
6	Q
5	R
4	P
3	M
2	S
1	L

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S15. Ans.(c)**Sol.**

Number	Box
7	I
6	Q
5	R
4	P
3	M
2	S
1	L

S16. Ans.(e)**Sol.**

Word	Code
For	Su
schedule	Me
Policy	La
assembly	Ra
Elections	Do
Leave	Ju
Currently/working	Ti/ve

S17. Ans.(a)**Sol.**

Word	Code
For	Su
schedule	Me
Policy	La
assembly	Ra
Elections	Do
Leave	Ju
Currently/working	Ti/ve

S18. Ans.(b)**Sol.**

Word	Code
For	Su
schedule	Me
Policy	La
assembly	Ra
Elections	Do
Leave	Ju
Currently/working	Ti/ve



S19. Ans.(a)

Sol.

Word	Code
For	Su
schedule	Me
Policy	La
assembly	Ra
Elections	Do
Leave	Ju
Currently/working	Ti/ve

S20. Ans.(c)

Sol.

Word	Code
For	Su
schedule	Me
Policy	La
assembly	Ra
Elections	Do
Leave	Ju
Currently/working	Ti/ve

S21. Ans.(e)

Sol.



S22. Ans.(a)

Sol.



S23. Ans.(e)

Sol.



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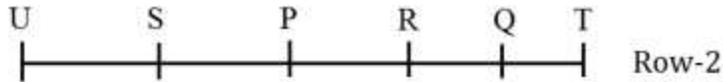
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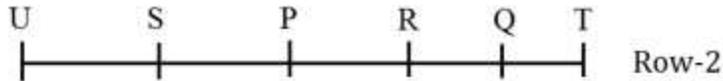
S24. Ans.(b)

Sol.



S25. Ans.(c)

Sol.



S26. Ans.(a)

Sol.

- (I) $H \geq R > T = L$ [True]
- (II) $T < R \leq H > K$ [False]



S27. Ans.(e)

Sol.

- (I) $G \leq D < N \leq P$ [True]
- (II) $G < B \leq J$ [True]

S28. Ans.(b)

Sol.

- (I) $E < I > N = R \geq S$ [False]
- (II) $N = R \geq S$ [True]

S29. Ans.(d)

Sol.

- (I) $Y \geq M$ [False]
- (II) $S \geq Y \geq M < W > O$ [False]

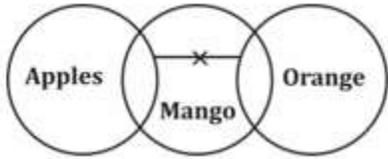
S30. Ans.(a)

Sol.

- (I) $V = Z < X = U$ [True]
- (II) $F \leq C \leq V = Z$ [False]

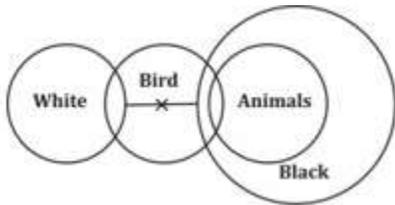
S31. Ans.(d)

Sol.



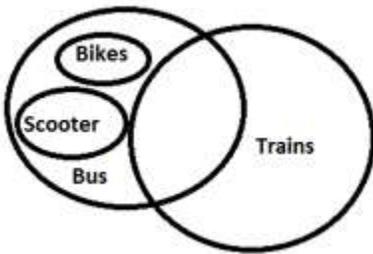
S32. Ans.(a)

Sol.



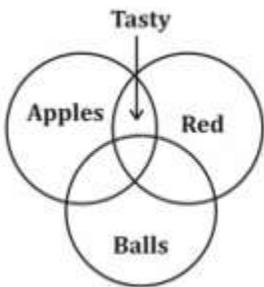
S33. Ans.(b)

Sol.



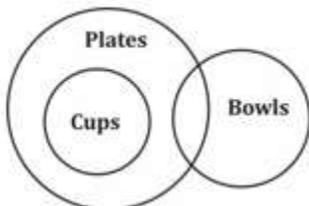
S34. Ans.(a)

Sol.



S35. Ans.(e)

Sol.



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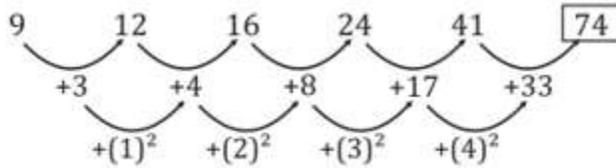
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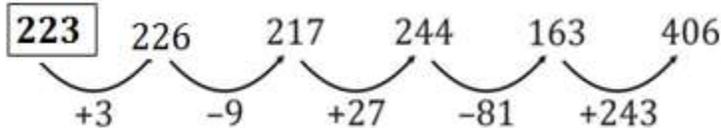
S36. Ans.(b)

Sol.



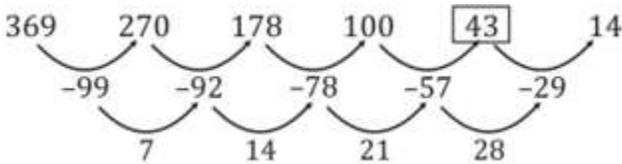
S37. Ans.(d)

Sol.



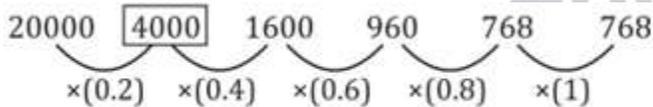
S38. Ans.(c)

Sol.



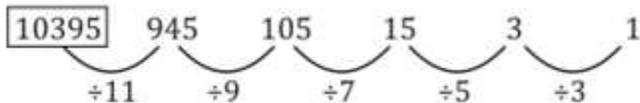
S39. Ans.(a)

Sol.



S40. Ans.(d)

Sol.



S41. Ans.(c)

Sol.

Let distance travelled at 50 km/h is x

$$\frac{x}{50} + \frac{170 - x}{100} = 2$$

$$\Rightarrow x = 30\text{km}$$

S42. Ans.(b)**Sol.** We know that

Average of odd consecutive numbers is always the middle no.

It is given, The Average of 1st 7 number is X which must be 4th No if we go by the rule.

Hence, Average of all 11 consecutive odd integers will be its middle no which is 6th number.5th No is (X+2) and 6th No is X+2+2 or (X+4)

Hence required avg. = (x + 4)

S43. Ans.(d)**Sol.** Let speed of car = x kmph

Relative speed = (x - 2) kmph

As per given condition

$$(x - 2) \frac{6}{60} = 0.6$$

$$\Rightarrow x = 8 \text{ kmph}$$

S44. Ans.(a)**Sol.** Let principle be P

$$6500 = \frac{P \times 8 \times 13}{100}$$

$$\Rightarrow P = 6250$$

Now,

$$CI = 6250 \left[\left(1 + \frac{8}{100} \right)^2 - 1 \right] = 6250 \left[\frac{27 \times 27}{25 \times 25} - 1 \right]$$

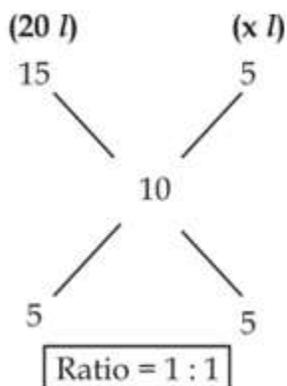
$$= \text{Rs } 1040$$

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S45. Ans.(d)**Sol.**

Let x liters second solution mixed in first solution

By allegation



$$\frac{20}{x} = \frac{5}{5}$$

$$x = 20 \text{ l}$$

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S46. Ans.(b)**Sol.**

Total rooms booked in Oberai on

$$\text{Tuesday and Thursday} = 280 + 520 = 800$$

Total rooms books in Grand on

$$\text{Monday and Thursday} = 280 + 720 = 1000$$

$$\text{Required percentage} = \frac{1000-800}{1000} \times 100 = 20\%$$

S47. Ans.(d)**Sol.** Total rooms booked in Oberai, Lodhi and Taj on Monday

$$= 360 + 260 + 640 = 1260$$

Total rooms booked in Taj, Grand and Eros on Thursday

$$= 375 + 720 + 275 = 1370$$

$$\text{Required difference} = 1370 - 1260 = 110$$

S48. Ans.(a)**Sol.**

Total room booked in Eros on

$$\text{Wednesday and Thursday} = 265 + 275 = 540$$

Total rooms booked in Lodhi on

$$\text{Thursday and Friday} = 215 + 305 = 520$$

$$\text{Required ratio} = 540 : 520$$

$$= 27 : 26$$

**S49. Ans.(c)****Sol.**

Average of room booked in Eros

on Monday, Wednesday and Friday

$$= \frac{155+265+315}{3}$$

$$= 245$$

Average of room booked in

'Grand' on Monday & Friday

$$= \frac{280+220}{2}$$

$$= 250$$

$$\text{Required sum} = 245 + 250 = 495$$

S50. Ans.(e)

Sol.

$$\text{Required percent} = \frac{480-360}{360} \times 100 = 33 \frac{1}{3}\%$$

S51. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } x^2 + 9x - 22 &= 0 \\ \Rightarrow x^2 + 11x - 2x - 22 &= 0 \\ \Rightarrow (x + 11)(x - 2) &= 0 \\ \Rightarrow x &= -11, 2 \end{aligned}$$

$$\begin{aligned} \text{II. } 2y^2 - 7y + 6 &= 0 \\ \Rightarrow 2y^2 - 4y - 3y + 6 &= 0 \\ \Rightarrow 2y(y-2) - 3(y-2) &= 0 \\ \Rightarrow (y-2)(2y-3) &= 0 \\ \Rightarrow y &= 2, \frac{3}{2} \end{aligned}$$

No relation

S52. Ans.(e)

Sol.

$$\begin{aligned} \text{I. } 2y^2 - 13y - 34 &= 0 \\ \Rightarrow 2y^2 - 17y + 4y - 34 &= 0 \\ \Rightarrow y(2y-17) + 2(2y-17) &= 0 \\ \Rightarrow (2y-17)(y+2) &= 0 \\ \Rightarrow y &= \frac{17}{2}, -2 \end{aligned}$$

$$\begin{aligned} \text{II. } 3x^2 - 11x - 20 &= 0 \\ \Rightarrow 3x^2 - 15x + 4x - 20 &= 0 \\ \Rightarrow 3x(x-5) + 4(x-5) &= 0 \\ \Rightarrow (x-5)(3x+4) &= 0 \\ \Rightarrow x &= 5, \frac{-4}{3} \end{aligned}$$

No relation

S53. Ans.(b)

Sol.

$$\begin{aligned} \text{I. } x^4 &= 256 \\ \Rightarrow x &= \pm 4 \\ \text{II. } y^2 - 16y + 64 &= 0 \\ \Rightarrow (y-8)^2 &= 0 \\ \Rightarrow y &= 8 \\ y &> x \end{aligned}$$



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S54. Ans.(e)**Sol.**

$$\begin{aligned} \text{I. } x^2 - 46x + 528 &= 0 \\ \Rightarrow x^2 - 24x - 22x + 528 &= 0 \\ \Rightarrow (x-24)(x-22) &= 0 \\ \Rightarrow x &= 24, 22 \\ \text{II. } y^2 - 48y + 572 &= 0 \\ y^2 - 26y - 22y + 572 &= 0 \\ (y-26)(y-22) &= 0 \\ y &= 26, 22 \\ \text{No relation} \end{aligned}$$

S55. Ans.(b)**Sol.**

$$\begin{aligned} \text{I. } 2x + 3y &= 4 \\ \text{II. } 4x + 5y &= 6 \\ \text{Solving eq. (I) and (II),} \\ (2x + 3y = 4) \times 2 \\ 4x + 5y &= 6 \\ y &= 2 \\ \text{Put } y = 2 \text{ in eq. (I),} \\ 2x + 6 &= 4 \\ \Rightarrow x &= -1 \\ y &> x \end{aligned}$$

S56. Ans.(a)**Sol.**

Total female population in village A & B together

$$\begin{aligned} &= 7200 \times \frac{12.5}{100} \times \frac{4}{9} + 7200 \times \frac{17.5}{100} \times \frac{1}{3} \\ &= 400 + 420 \\ &= 820 \end{aligned}$$

$$\begin{aligned} \text{Required percentage} &= \frac{820}{7200 \times \frac{17.5}{100} \times \frac{2}{3}} \\ &= \frac{820}{840} \times 100 \\ &= 97 \frac{13}{21} \% \end{aligned}$$

S57. Ans.(e)**Sol.**

$$\begin{aligned} \text{Central angle for population of village D \& E} \\ &= \frac{(30 + 15)}{100} \times 360 \\ &= 162^\circ \end{aligned}$$

S58. Ans.(b)

Sol. Total population of village Q

$$= 7200 \times \frac{25}{100} \times \frac{65}{100}$$
$$= 1170$$

Total male population in village Q

$$= 1170 \times \frac{9}{13}$$
$$= 810$$

S59. Ans.(d)

Sol.

Total illiterate population in village D

$$= 7200 \times \frac{30}{100} - 7200 \times \frac{17.5}{100} \times \frac{75}{100}$$
$$= 2160 - 945$$
$$= 1215$$

$$\text{Required percentage} = \frac{1215}{2160} \times 100$$
$$= 56.25\%$$

S60. Ans.(c)

Sol. Required ratio = $\frac{15}{17.5} = 6 : 7$

S61. Ans.(b)

Sol.

$$\frac{3}{4} \text{ th work can be done by Ravi in } = \frac{27}{2} \text{ hrs}$$

$$\therefore \text{ whole work completed by Ravi } = \frac{4}{3} \times \frac{27}{2}$$

$$= 18 \text{ h}$$

And,

$$\text{Whole work completed by Hira in } = \frac{3}{2} \times 8 = 12 \text{ h}$$

$$\therefore \text{ Required time } = \frac{18 \times 12}{18 + 12} = 7.2 \text{ h}$$

S62. Ans.(c)

Sol.

$$\text{Rita's father's age} = 31 \times 2 - 28$$

$$= 34 \text{ yrs}$$

$$\text{Rita's age after two yr} = \frac{100}{300} \times (36)$$

$$= 12 \text{ yr}$$

$$\therefore \text{ Rita's present age} = 10 \text{ yr}$$

$$\therefore \text{ Raju's present age} = (10 - 2) \times \frac{75}{100} + 2$$

$$= 8 \text{ yr}$$

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S63. Ans.(a)

Sol.

$$\begin{aligned}\text{Correct average} &= \frac{42.5 \times 5 - (44 + 36) + 40 + 42}{5} \\ &= \frac{214.5}{5} \\ &= 42.9\end{aligned}$$

S64. Ans.(b)

Sol.

Percentage of people in other activities

$$= 100 - \left(\frac{50}{3} + \frac{100}{3} + 25 \right)$$

$$= 25\%$$

$$\therefore 25\% \rightarrow 450$$

$$\therefore 100\% \rightarrow \frac{450}{25} \times 100$$

$$\rightarrow 1800$$

$$\therefore \text{Required answer} = \frac{50}{300} \times 1800$$

$$= 300$$



S65. Ans.(c)

Sol.

(A's profit) : (B's profit) : (C's profit)

$$= (13,200 \times 4 + 14,400 \times 8) : (14,400 \times 4 + 12,000 \times 8) : (18,000 \times 12)$$

$$= 35 : 32 : 45$$

$$\therefore \text{total profit} = \frac{35+32+45}{45} \times 11250$$

$$= \text{Rs } 28000$$

S66. Ans.(b)

Sol.

$$\frac{2}{3} \times \frac{4}{5} \times \frac{3}{7} \times 2205 = ?$$

$$\Rightarrow ? = 504$$

S67. Ans.(a)

Sol.

$$? = 2 - 3 + 4 - 1 + \left(\frac{3}{7} - \frac{1}{4} + \frac{3}{8} - \frac{1}{56} \right)$$

$$? = 2 + \left(\frac{24-14+21-1}{56} \right) = 2 \frac{30}{56} = 2 \frac{15}{28}$$

S68. Ans.(e)

Sol.

$$-119 + 34 - 67 + 259 - ? = 88$$

$$\Rightarrow ? = 19$$

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S69. Ans.(b)

Sol.

$$\begin{aligned}\sqrt{144 \times 32 \div 48 + 174 + 54} &= (?)^2 \\ \Rightarrow (?)^2 &= \sqrt{324} \\ \Rightarrow (?)^2 &= 18 \Rightarrow ? = 3\sqrt{2}\end{aligned}$$

S70. Ans.(c)

Sol.

$$\begin{aligned}53 \times 48 - ? &= 29 \times 70 \\ \Rightarrow ? &= 53 \times 48 - 29 \times 70 \\ ? &= 514\end{aligned}$$

S71. Ans.(c)

Sol. Sentence (c) is the correct meaning of the phrase “**majority of one**” as described in first paragraph of the passage. Hence sentence (c) is correct.

S72. Ans.(b)

Sol. Refer to the second last paragraph of the passage “Since the country has adopted a three language formula—English, Hindi and the regional—the Hindi-speaking states are happy because it is their regional language. Non-Hindi speaking states are also happy because they have English and fit into the dictates of the Union which is primarily conducting its business in English.”

S73. Ans.(b)

Sol. Refer to the second last paragraph of the passage “ That is the reason why a non-Hindi speaking state jealously guards its regional language and even challenges Hindi whenever the particular state feels that the rightful space of its own language has been taken by the national language.” Hence only sentence (III) is correct in context of the passage.

S74. Ans.(b)

Sol. Refer the third paragraph of the passage, “he found that the non- Hindi speaking members were up in arms and vehemently opposed to use of the language in official business.” Hence we can say that only sentence is correct in context of the passage.

S75. Ans.(b)

Sol. “Hindi spread requires patience” is an appropriate theme of the passage. The passage is about government’s decision over national language. It has been mentioned in the passage that “. Even the people in south India have realised that there is no getting away from the national language and their children are learning Hindi. Probably, the Modi government feels that it has to be only patient.” This clearly indicates that the spread of Hindi language requires patience. All other options are not the central idea of the passage.

S76. Ans.(d)

Sol. Sentence (d) does not go in harmony with the passage as there should be no imposition of any language particularly for ‘south Indians’, not for ‘north Indians’. Hence sentence (d) is the correct option.

S77. Ans.(b)

Sol. Delineated means describe or portray (something) precisely. Hence it has same meaning as **particularize**.

Diligent means hard-working, dedicated.

Digression means straying from main point.

Patronize means treat with an apparent kindness which betrays a feeling of superiority.

Abhor means to hate.

S78. Ans.(d)

Sol. Consensus means a general agreement. Hence it has same meaning as **concord**.

Brazen means bold.

Brusque means short, rude.

Prudent means careful, wise.

Dissension means disagreement that leads to discord.

S79. Ans.(e)

Sol. Vehemently means in a forceful, passionate, or intense manner; with great feeling. Hence it has opposite meaning as **tamely**.

Malignly means harmful.

Pretentious means being self important.

Prosaic means ordinary.

Inevitable means unavoidable.

S80. Ans.(b)

Sol. Endorse means declare one's public approval or support of. Hence it has opposite meaning as **dissuade**.

Impute means to assign or attribute to someone.

Opulence means wealth.

Abate means reduce or lessen.

Abdicate means give up a position.

S81. Ans.(a)

Sol. 'As', 'since' or 'because' will be used in place of 'for' because 'for' is not used in starting of the sentence in the form of conjunction of reason.

S82. Ans.(d)

Sol. The use of 'with' is superfluous as the meaning of 'bag and baggage' itself is with bag and baggage. Hence 'with' is not be used before 'bag and baggage'.

S83. Ans.(b)

Sol. Use 'as' before 'to'. 'so... as' is the correct way to use it in a sentence.

Ex. He is not so good as I expected.

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S84. Ans.(a)

Sol. 'recovered' will be used in place of 'recover' as 'were' indicates that the incident happened in past tense. Hence 'recovered' is used.

S85. Ans.(d)

Sol. Use 'well- drawn' in place of 'well- drawed' as the past form of 'draw' is 'drew' and past participle form is 'drawn'. Hence there is no need to add 'ed' in 'drawn'.

S86. Ans.(c)

Sol. Use 'had' in place of 'has' because past perfect is used for past form of incident.

S87. Ans.(b)

Sol. The use of 'all' is superfluous as 'monthly expenses' includes all types of expenses.

S88. Ans.(b)

Sol. 'expire' will be used in place of 'will expire' as for future fixed programme, simple present tense is used.
Ex. The college **re- opens on Monday**.

S89. Ans.(a)

Sol. Use 'had' in place of 'as' as the syntax 'Hardly+ had+ Subject+ V3', 'when + Subject + V2' is used.
Ex. Hardly **had I gone** out when a friend of mine **came**.

S90. Ans.(c)

Sol. Use 'on' after 'later' as 'later' means 'after' while 'later on' means 'afterwards'.

S91. Ans.(b)

Sol. "has expressed concerns" is the correct phrase to make the sentence grammatically correct. It is to be noted that the sentence is in Present Tense. Hence (b) is the correct option.

S92. Ans.(e)

Sol. The given sentence is grammatically correct. "for supply of something" forms the correct grammar structure. Hence (e) is the correct choice.

S93. Ans.(a)

Sol. "of which over" is the correct phrase to make the sentence grammatically correct. "Of which" is part of a relative clause. "Which" is the relative pronoun and "of" is a preposition placed at the beginning of the relative clause, instead of at the end. Hence (a) is the correct option.

S94. Ans.(d)

Sol. "welcome" is the word fits into the sentence perfectly and thus adding meaning to it as the word to the sentence means very pleasing because it is much needed or desired. Hence (d) is the correct option.

S95. Ans.(e)

Sol. The phrase “stressed stranded projects in the vexed power sector” in the sentence implies that it is the problem that the government has tried to sort-out. Hence the word “problem” fills the blank appropriately.

S96. Ans.(b)

Sol. “stranded” stands out to be the most suitable word that adds meaning to the sentence as the word means left without the means to move from somewhere. Hence (b) is the correct option.

S97. Ans.(d)

Sol. “reforms” is the correct word in context of its usage in the sentence as it means the action or process of reforming an institution or practice. Hence (d) is the correct option.

S98. Ans.(a)

Sol. “rampant” is the correct word as it means (especially of something unwelcome) flourishing or spreading unchecked. Other words alter the meaning of the sentence. Hence (a) is the correct option.

S99. Ans.(d)

Sol. “state power utilities” is the correct phrase in context of adding meaning to the sentence as the word “utility” means the state of being useful, profitable, or beneficial.

S100. Ans.(c)

Sol. “demand” is the correct word in context of its usage in the sentence as the word means pressing requirements. Hence (c) is the correct option.

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