

Solutions

S1. Ans.(c)

Sol. The correct choice is option (c). In part (A), 'despite of' is incorrect as 'despite' is never followed by 'of'.

S2. Ans.(a)

Sol. The error lies in part (A) of the sentence. Here 'recently' should be 'recent' as we need adjective here while 'recently' is adverb.

S3. Ans.(b)

Sol. The error lies in part (C). Here 'accept' should be 'except'. Accept is contextually incorrect in the given sentence.

accept means to agree to take something that somebody offers you

except means not including somebody/something; apart from the fact that

S4. Ans.(c)

Sol. The error lies in part (C). Here 'safety' should be 'safe' as we need an adjective here for the noun 'place'.

S5. Ans.(c)

Sol. The error lies in part (B). Here 'happens' should be replaced by 'happen' as to comply with the rule of subject verb agreement, we need plural verb for the plural subject (accidents).

S6. Ans.(b)

Sol. The correct sequence of words is BAC. Therefore the correct sentence will be "His pleasant manners and varied culture, not less than his artistic skill, contributed to render him popular."

S7. Ans.(a)

Sol. The correct sequence is ACB. Therefore the correct sentence will be "It was fairly obvious that his prison stay, especially during the pandemic, was detrimental to his well-being"

S8. Ans.(d)

Sol. The correct sequence is CBA. Therefore the correct sentence will be "To make matters worse, credible reports that some of the electronic evidence gathered in this case could have been planted remotely by malware were never investigated"

S9. Ans.(a)

Sol. The correct sequence is ACB. Therefore the correct sentence will be “We must understand mental health conditions for what they are and for how they are associated with disadvantages”

S10. Ans.(d)

Sol. The correct sequence is BCA. Therefore the correct sentence will be “Aviation websites are abuzz with reports of a rapid upgradation of aviation infrastructure in Tibet.”

S11. Ans.(a)

Sol. The paragraph illustrates the importance of sleep just as nutrition and exercise is to maintain a healthy body and mind. Therefore, the most suitable word for the given blank is ‘regular’ as it contributes to the theme of the passage about addressing healthy sleep routines.

Regular- recurring at uniform intervals.

System- a set of things working together as parts of a mechanism or an interconnecting network; a complex whole.

Seldom- not often; rarely

active- engaging or ready to engage in physically energetic pursuits.

Unusual- not habitually or commonly occurring or done.

S12. Ans.(d)

Sol. The given sentence contributes to the central theme of the paragraph which is about healthy sleeping habits by providing a statistical data of adults experiencing sleeping issues. Thus, the most suitable word for the given blank is ‘suffers’. All the other words are either grammatically or contextually incorrect.

Suffers- experience or be subjected to (something bad or unpleasant).

Address- think about and begin to deal with (an issue or problem).

Indicate- point out; show.

Results- a favourable outcome of an undertaking or contest.

Remarks- say something as a comment; mention.

S13. Ans.(c)

Sol. The given paragraph mentions the harmful repercussions of sleep deprivation. Therefore, the most suitable word for the given blank is ‘impacts.’

Impacts- a marked effect or influence.

Affect- Affect is usually a verb, and it means to impact or change.

Effect- Effect is usually a noun that you would use to indicate the result of a change.

Observes- notice or perceive (something) and register it as being significant.

Facilitate- make (an action or process) easy or easier.

S14. Ans.(b)

Sol. The most suitable word for the given blank is adequate which means 'satisfactory or acceptable in quality or quantity' as the passage refers to the harmful impacts on quality of life due to deprived sleep. All the other words are contextually incorrect.

Additional- added, extra, or supplementary to what is already present or available

Advanced- modern and recently developed.

Anticipated- regard as probable; expect or predict.

Barely- only just; almost not.

S15. Ans.(a)

Sol. A Modal verb is followed by another verb in the base form. Since 'can' is a modal verb, the main verb should be in its base form. This shortlists our options to 'lead' and 'consist'. Lead means cause (a person or animal) to go with one by holding them by the hand, a halter, a rope, etc. while moving forward; while consist means be composed or made up of. Hence, 'lead' is the most suitable word.

Indicated- point out; show.

Transformed- make a marked change in the form, nature, or appearance of.

Caused- make (something, especially something bad) happen.

S16. Ans.(e)

Sol. The given sentence of the passage mentions the conditions which further aggravate the condition of sleep deprivation. Thus, the most suitable word for the given blank is 'chronic' which means (of an illness) persisting for a long time or constantly recurring.

Absolute- not qualified or diminished in any way; total.

Desperate- (of an act) tried in despair or when everything else has failed.

Disability- a physical or mental condition that limits a person's movements, senses, or activities.

Emotional- relating to a person's emotions.

S17. Ans.(c)

Sol. The passage mentions that chronic sleep deprivation leads to all sorts of negative effects on physical and social well-being. Hence, it is concluded by advising the readers to improve the quality of sleep if one wants to achieve a healthy lifestyle. Therefore the most suitable word for the given blank is 'optimize'.

Optimize- make the best or most effective use of (a situation or resource).

Retrieval- the process of getting something back from somewhere.

Estimate- roughly calculate or judge the value, number, quantity, or extent of.

Decline- diminish in strength or quality; deteriorate.

Degrade- lower the quality of; cause to deteriorate.

S18. Ans.(d)

Sol. The most suitable word for the given blank is 'improve' which means make or become better. All the other words are contextually incorrect.

Lower- less high in position.

Corrupt- evil or morally depraved.

Aggregate- a whole formed by combining several separate elements.

Impair- weaken or damage (something, especially a faculty or function).

S19. Ans.(b)

Sol. The given highlighted phrase is incorrect. The sentence is in past continuous tense hence 'operates' in statement is incorrect hence option (c) is also incorrect. In option (a), 'has' is incorrect because subject (establishments and factories) is plural here therefore option (d) is also incorrect. Hence correct choice is option (b).

S20. Ans.(a)

Sol. The highlighted phrase in the statement is incorrect as sentence is in Past indefinite. In option (b), 'have' is incorrect as subject (DCW) is singular. Option (c) is in Perfect continuous hence incorrect. In Option (d), 'issue' is incorrect as 'has+v3' is correct.

S21. Ans.(d)

Sol. In the highlighted phrase 'spend' is incorrect because sentence is in past tense and third form of spend is 'spent' therefore option (b) is also incorrect. In option (a), 'year' should be 'years'. In option (b), 'then' should be 'than' hence option (c) is also incorrect.

S22. Ans.(e)

Sol. The highlighted phrase in the sentence is correct hence no improvement required is correct choice.

S23. Ans.(c)

Sol. The correct replacement of the highlighted phrase is "has the skills" as the sentence follows the structure of present tense. Moreover, the subject of the sentence is singular. Hence, option (c) is the correct choice.

S24. Ans.(a)

Sol. The correct choice for the answer is option (a): *Both II and III.*

Statement II is true because it is stated in the last paragraph of the passage that "humans, like other animals, also evolved the option to freeze, or "play dead" in the face of a threat."

Statement III is true because in the first paragraph it says: *Most noises we hear are delivered from our ear to an area of the brain devoted to analyzing a sound and breaking it into its component parts, such as gender, age, and tone; high or low; a brass, stringed or electric instrument – or several combined; a ribbit or a coo, and what animal makes that sound.*

Statement I is incorrect because in the last paragraph it says "Humans and other animals scream for many reasons – in joy, in surprise, in fear. " This tells us that there can be many reasons for humans screaming besides fear.

Hence, option (a) is the correct choice for the answer.

S25. Ans.(b)

Sol. The correct choice for the answer is option (b): *The scream one lets out when faced with danger holds an element of roughness which is crucial for letting others know of the possible danger.*

This answer is found in the second paragraph where it says: This is especially true for screams when we're scared. These have a unique sound signature encompassed by the term "roughness." This roughness is what serves to alert others to danger.

The rest of the options are not mentioned anywhere in the passage given. Therefore they cannot be considered for the answer.

Hence, option (b) is the correct choice for the answer.

S26. Ans.(e)

Sol. The correct choice for the answer is option (e): Both II and III

Statement II is false as the passage says: Since screaming takes quite a few muscles (probably *a little less than* the 100 used for speaking), a person frozen in fear is rendered mute as well as immobile.

Statement III is also false because it can be found in the article that: Research suggests when we scream in fear, the noise serves the *dual purpose of sharpening our own focus in the face of a threat as well as of warning others.*

The facts present in the passage help us figure out why the statements II and III are false.

Hence, option (e) is the correct choice for the answer.

S27. Ans.(c)

Sol. The correct choice for the answer is option (c): *A certain part of the brain responsible for overlooking muscle activity takes over other responses of the brain and forces every movement of the body to shut down, including speech.*

The answer is found towards the end of the last paragraph: *This happens involuntarily, when the cerebellum, the part of the brain that regulates muscle activity, overpowers other terrified brain responses and basically shuts down all movement. Since screaming takes quite a few muscles (probably a little less than the 100 used for speaking), a person frozen in fear is rendered mute as well as immobile.*

All the other options are nowhere to be found in the above passage.

Hence, option (c) is the correct choice for the answer.

S28. Ans.(a)

Sol. The correct choice for the answer is option (a): *The brain processes the scream in a part which helps activate our fight or flight mode which then helps us become aware and scan the situation.*

This answer is present in the second paragraph: *A scream goes straight from the ear to the amygdala, the part of the brain that processes fear and kickstarts the body's fight-or-flight response. The sound jolts our brains into increased alertness and analysis.*

Hence, option (a) is the correct choice for the answer.

S29. Ans.(b)

Sol. The correct choice for the answer is option (b): *signals*.

To signal means to convey information or instructions by means of a gesture, action, or sound.

Indicate means to express an intention, opinion, or wish in an indirect way.

Hence, *signals* is the word most similar to *indicates*.

To announce means to make a formal public statement about a fact, occurrence, or intention.

To bargain means an agreement between two or more people or groups as to what each will do for the other.

To divide means to separate or be separated into parts.

Flows mean the action or fact of moving along in a steady, continuous stream.

S30. Ans.(d)

Sol. The correct choice for the answer is option (d): *concentrate on*.

Focus on or concentrate on have similar meanings which can be explained as to give most of your attention to someone or something.

The rest of the phrases are not applicable because they all have different meanings. Hence, they cannot be used to replace the given phrase.

Solutions (31-35):

Building	Total Flats	Vacant Flats	Occupied Flats
A	400	160	240
B	460	120	340
C	540	180	360
D	600	220	380
E	420	200	220

S31. Ans.(c)

Sol. Required percentage = $\frac{(180+220)}{(380+220)} \times 100 = 66\frac{2}{3}\% \approx 67\%$

S32. Ans.(a)

Sol. Required ratio = $\frac{240+220}{180+220} = \frac{460}{400}$
 $= 23 : 20$

S33. Ans.(b)

Sol. Average vacant flats in A and E = $\frac{160+200}{2} = 180$

Required percentage = $\frac{180}{360} \times 100 = 50\%$

S34. Ans.(d)

Sol. Required Difference = $(460 + 600) - (400 + 540)$
 $= 1060 - 940 = 120$

S35. Ans.(c)

Sol. Required no. = $3 \times 240 + 2 \times 340 = 720 + 680$
 $= 1400$

S36. Ans.(c)

Sol. The pattern of the series is -

$$0.2 + 2.5 \times 1 = 2.7$$

$$2.7 + 2.5 \times 2 = 7.7$$

$$7.7 + 2.5 \times 3 = 15.2$$

$$15.2 + 2.5 \times 4 = 25.2$$

$$25.2 + 2.5 \times 5 = 37.7$$

S37. Ans.(d)

Sol. The pattern of the series is -

$$15 \times 4 = 60$$

$$60 \times 3.5 = 210$$

$$210 \times 3 = 630$$

$$630 \times 2.5 = 1575$$

$$1575 \times 2 = 3150$$

S38. Ans.(a)

Sol. The pattern of the series is -

$$45 + 2^2 = 49$$

$$49 - 3^2 = 40$$

$$40 + 5^2 = 65$$

$$65 - 7^2 = 16$$

$$16 + 11^2 = 137$$

S39. Ans.(b)

Sol. The pattern of the series is -

$$4 \times 2 + 1 = 9$$

$$9 \times 3 + 1 = 28$$

$$28 \times 4 + 1 = 113$$

$$113 \times 5 + 1 = 566$$

$$566 \times 6 + 1 = 3397$$

S40. Ans.(b)

Sol. Pattern of series -

$$\begin{array}{ccccccc} 22, & 30, & 41, & 56, & ? = 76, & 102 \\ +8 & +11 & +15 & +20 & +26 \\ +3 & +4 & +5 & +6 \end{array}$$

Solutions (41-45):

	Group X	Group Y	Group Z	Total
A	30	20	40	90
B	40	25	15	80
C	50	25	40	115
Total	120	70	95	285

S41. Ans.(b)

Sol. Total students in group Y of all the classes = 70

S42. Ans.(a)

Sol. Required percentage = $\frac{40}{25} \times 100 = 160\%$

S43. Ans.(a)

Sol. Total girls in group Y and Z together = $34 - 12 = 22$

Total boys in group Y and Z together on class A = $(90 - 30) - 22 = 38$

S44. Ans.(b)

Sol. Required difference = $120 - 95 = 25$

S45. Ans.(b)

Sol. Average students in group X of class and B = $\frac{40+30}{2} = 35$

Required ratio = $\frac{35}{115} = \frac{7}{23}$
= 750m

S46. Ans.(a)

Sol. Let length of train A = $3x$

Length of train B = $5x$

Speed of train A = $72 \times \frac{5}{18} = 20$ m/sec

Speed of train B = $54 \times \frac{5}{18} = 15$ m/sec

ATQ,

$$\frac{8x}{20+15} = 16$$

$$\Rightarrow x = 70$$

$\therefore$ Length of train B = $5 \times 70 = 350$ m

S47. Ans.(b)

Sol. Perimeter of the circle = $2 \times \frac{22}{7} \times 28 = 176$ cm

Perimeter of square = $176 - 32 = 144$

Side of square = $\frac{144}{4} = 36$

So, area of square = 1296 cm²

S48. Ans.(d)**Sol.** Let speed of boat be x kmph

ATQ

$$x - 1.5 = 10$$

$$x = 11.5$$

Let the distance be D .

$$\frac{D}{13} + \frac{D}{10} = 46$$

$$D = 260 \text{ km}$$

Total distance travel by boat = $2 \times 260 = 520$ **S49. Ans.(e)****Sol.** Let the amount be Rs x

ATQ

$$x \times 30100 - x \times 21100 = 432$$

$$x = \text{Rs } 4800$$

S50. Ans.(d)**Sol.** Q got = $100x$ votesSo, P got = $50x$ votesTotal votes = $150x$ votesFor tie $\rightarrow$ Q's votes = P's votes = $75x$

$$\Rightarrow 100x - 75x = 200$$

$$\Rightarrow x = 8$$

Total votes $\rightarrow 8 \times 150 = 1200$ Required number = $1200 \times 8 = 9600$ **S51. Ans.(c)****Sol.** Let cost price of pen = $100x$ Rs.So, marked price of pen = $100x \times \left(1 + \frac{50}{100}\right) = 150x$ Rs.And, selling price of pen = $(150x - 100)$ Rs.

ATQ -

$$(150x - 100) - 100x = 100$$

$$50x = 200$$

$$x = 4 \text{ Rs.}$$

So, selling price of pen = $(150 \times 4 - 100) = 500$ Rs.**S52. Ans.(a)****Sol.** Ratio of milk to water in mixture = $(120 - 20) : 20 = 5 : 1$ Total water in final mixture = $20 - 36 \times \frac{1}{6} = 14$ litersTotal milk in final mixture = $100 - 36 \times \frac{1}{6} + 6 = 76$ litersRequired percentage = $\frac{76-14}{76} \times 100 = 81.67 = 82\%$

S53. Ans.(d)**Sol.** Let investment of C = X Rs.

ATQ -

$$\frac{X \times 6}{(35000 \times 12 + 40000 \times 12 + X \times 6)} = \frac{9000}{39000}$$

$$X = 45000 \text{ Rs.}$$

S54. Ans.(b)**Sol.** Pipe (A + B) together fill the whole tank = $7 \times 2 = 14 \text{ hours}$ Pipe C empty the whole tank in = $x \times \frac{100}{40} = \frac{5x}{2} \text{ hours}$

ATQ -

$$\frac{1}{14} - \frac{2}{5x} = \frac{4}{105}$$

$$x = 12$$

S55. Ans.(b)**Sol.** Total present age of A and B = $30 \times 2 = 60 \text{ years}$

Let four year ago age of A and C be 3x and 4x respectively

ATQ -

$$(4x + 4) - (3x + 4) = 4$$

$$x = 4 \text{ years}$$

$$\text{Present age of C} = (4 \times 4 + 4) = 20 \text{ years}$$

$$\text{So, sum of ages of A, B \& C five years hence will be} = 60 + 20 + 5 \times 3 = 95 \text{ years}$$

S56. Ans.(d)**Sol.** $512 \div ? \times 6 = 192$

$$? = \frac{512 \times 6}{192}$$

$$= 16$$

S57. Ans.(e)

$$\text{Sol. } \frac{48}{100} \times 625 \times \frac{4}{3} = ?$$

$$? = 400$$

S58. Ans.(c)

$$\text{Sol. } 65\% \times 480 - ? + 175 = 350$$

$$? = 137$$

S59. Ans.(d)

$$\text{Sol. } 45 + \frac{20}{100} \times ? = \frac{460}{4}$$

$$45 + \frac{?}{5} = 115$$

$$? = 350$$

S50. Ans.(b)

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

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

$$4^? = 64$$

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

$$? = 3$$

S61. Ans.(c)

Sol. $4 \times (? + 120) = (8)^3$

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

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

$$? = 8$$

S62. Ans.(a)

Sol. $\frac{56}{?} + 512 = \frac{13}{100} \times 4000$

$$\frac{56}{?} = 520 - 512$$

$$? = 7$$

S63. Ans.(e)

Sol. $\frac{51}{12} + \frac{7}{4} - ? = 4$

$$? = \frac{51+21}{12} - 4$$

$$? = 6 - 4 = 2$$

S64. Ans.(d)

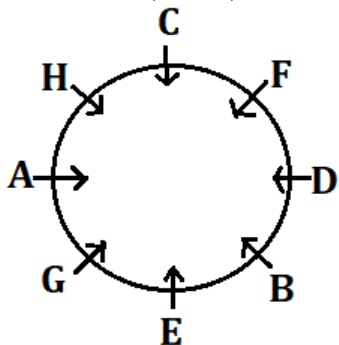
Sol. $? = 270 - 89 = 181$

S65. Ans.(c)

Sol. $? = 88 + 288$

$$= 376$$

Solutions (66-70):



S66. Ans.(d)

S67. Ans.(c)

S68. Ans.(b)

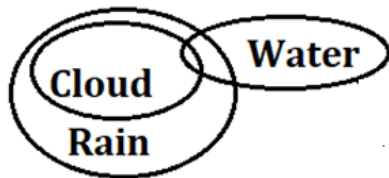
S69. Ans.(a)

S70. Ans.(e)

Solutions (71-73):

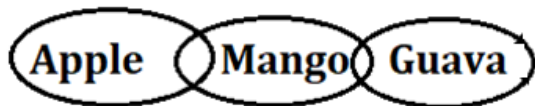
S71. Ans.(d)

Sol.



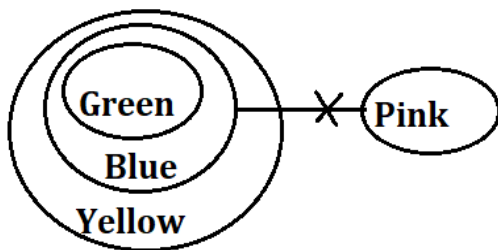
S72. Ans.(b)

Sol.



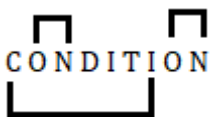
S73. Ans.(a)

Sol.



S74. Ans.(d)

Sol.



Solutions (75-79):

S75. Ans.(b)

Sol. U

S76. Ans.(e)

S77. Ans.(d)

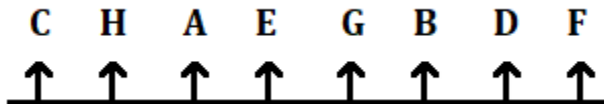
S78. Ans.(b)

S79. Ans.(d)

S80. Ans.(c)

Sol. Sent and Nest

Solutions (81-85):



S81. Ans.(a)

S82. Ans.(d)

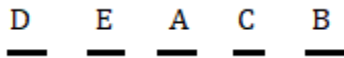
S83. Ans.(a)

S84. Ans.(e)

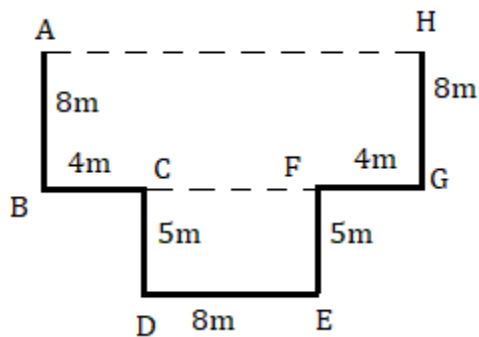
S85. Ans.(c)

S86. Ans.(a)

Sol.



Solutions (87-89):



S87. Ans.(c)

S88. Ans.(a)

S89. Ans.(b)

Solutions (90-93):

Boxes
P
V
Q
R
U
W
T
S

S90. Ans.(d)

S91. Ans.(c)

S92. Ans.(b)

S93. Ans.(e)

Solutions (94-96):

S94. Ans.(b)

Sol. I: $M = O$ (False) II: $N < S$ (True)

S95. Ans.(c)

Sol. I: $C \geq F$ (False) II: $F > C$ (False)

S96. Ans.(a)

Sol. I: $S > W$ (True) II: $U \geq Y$ (False)

Solutions (97-100):

S	Q	P	T	R	
+	+	+	+	+	Row-1
+	+	+	+	+	Row-2
B	E	C	A	D	

S97. Ans.(c)

S98. Ans.(a)

S99. Ans.(d)

S100. Ans.(a)

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