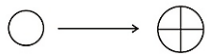
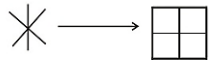


SSC CHSL 2021-22 Memory Based Mock (Based on 24-05-2022 Exam) Solutions

S1. Ans.(c)

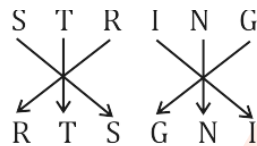
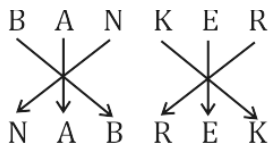
Sol. Opposite faces are



Option (c) is not possible

S2. Ans.(b)

Sol.



S3. Ans.(c)

Sol. CAB

$$3 + 1 + 2 = 6 \times 2 = 12$$

FED

$$6 + 5 + 4 = 15 \times 2 = 30$$

HIDE

$$8 + 9 + 4 + 5 = 26 \times 2 = 52$$

S4. Ans.(c)

Sol.

$$\begin{array}{cccc}
 F & A & K & E \\
 -1 \left(+1 \left(+1 \left(+1 \left(\right. \right. \right. \right. & M & A & D \\
 5 & 2 & 10 & 6 & 1 & 2 & 23
 \end{array}$$

$$\begin{array}{cccc}
 D & E & E & R \\
 -1 \left(+1 \left(-1 \left(+1 \left(\right. \right. \right. \right. & & & \\
 3 & 6 & 4 & 19 & = & 36419
 \end{array}$$

S5. Ans.(a)

Sol. 17 triangles are there in given figure

S6. Ans.(c)

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Test Series, eBooks

SSC CGL, CHSL, MTS, GD, CPO,
Selection Post, Stenographer

S7. Ans.(c)

Sol. Moto > Red > Bull > Energy > Lion

Red is having the second most sugar content.

S8. Ans.(a)

S9. Ans.(b)

S10. Ans.(c)

Sol. bbc, bbc, series follow.

S11. Ans.(c)

Sol. +2, -2, -2, +2 series



S12. Ans.(d)

Sol. Tuesday → Mars

Thursday → Jupiter

S13. Ans.(d)

Sol. Request: order

Whisper: shout

S14. Ans.(d)

Sol. Memory : Amnesia

Vision : Blindness

Antonyms, to each other

S15. Ans.(b)

Sol.

$$6 : 35 :: 9 : ? 80$$

$(6)^2 - 1$ $9^2 - 1$

S16. Ans.(b)

Sol. Dinesh was born on 29th September 1999. Day between 15th August and 29th September

45 day = 6 weeks 3 days

Sunday + 3 = Wednesday

S17. Ans.(d)



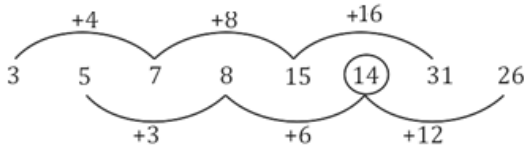
S18. Ans.(c)

S19. Ans.(b)

Sol. $4 \div 8 \times 12 + 6 - 4 = 8$

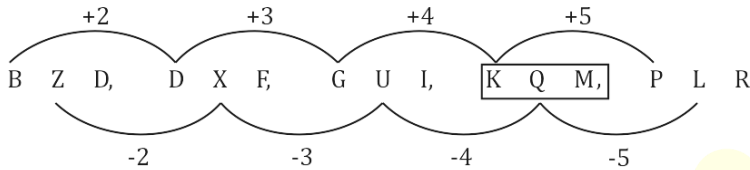
S20. Ans.(b)

Sol.



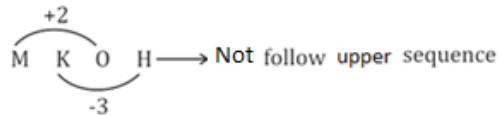
S21. Ans.(a)

Sol.



S22. Ans.(c)

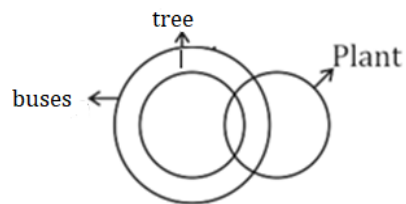
Sol.



S23. Ans.(d)

S24. Ans.(a)

Sol.



S25. Ans.(b)

Sol. 10

S26. Ans.(a)

Sol. Playing to Win is authored by Alan G. Lafley and Roger Martin

S27. Ans.(c)

Sol. Padma Awards 2021 have been conferred to 119 recipients. Of these, 7 Padma Vibhushan, 10 Padma Bhushan and 102 Padma Shri awardees.

S28. Ans.(b)

Sol. Lajja is a novel in Bengali by Taslima Nasrin, a writer of Bangladesh.

It deems as a response book to anti-Hindu riots that erupted in parts of Bangladesh, soon after the demolition of Babri Masjid in India on 6 December 1992.

S29. Ans.(b)

Sol. Double fault is related to Tennis.

Double fault means hitting a fault on the second service.

S30. Ans.(d)

Sol. Simlipal bio-reserve located is located in Odisha.

- Simlipal sanctuary is one of the UNESCO-recognized biosphere reserves in India spread in an area of more than 2750 km² of the Chotanagpur plateau.

S31. Ans.(b)

Sol. Battle of Kannauj was fought between Sher Shah Suri and the king Humayun in 1540.

S32. Ans.(c)

Sol.

- A state's chief minister is appointed by the governor. He or she frequently appoints the Advocate General, the Chairman of the State Public Service Commission, and the members of the State Public Service Commission. Aside from that, the Governor appoints the State Election Commissioner (though removed by the President).
- The State Election Commission has been tasked with holding free, equal, and impartial elections for local government bodies in the state.

S33. Ans.(d)

Sol. The fiscal deficit is estimated to be 6.8% of GDP in BE 2021-22. The Budget 2021 predicts fiscal deficit at 9.5% in RE 2020-21.

S34. Ans.(c)

Sol.

- Nomadland movie was won the best picture award at the 93rd Oscar award ceremony.
- Nomadland movie Director is Chloe Zhao.

S35. Ans.(b)

Sol. The Hornbill Festival is a celebration held every year from 1 to 10 December, in Nagaland, Northeast India.

- It is also called the 'Festival of Festivals'.
- To revive, protect, sustain, and promote the richness of the Naga heritage and traditions.

S36. Ans.(c)

Sol.

- Madhya Pradesh was formed on November 01, 1956.
- On November 1 1956, Madhya Pradesh, Karnataka, Chhattisgarh, Haryana, Punjab, Kerala, Andhra Pradesh, Tamil Nadu state are observing formation day.
- Chhattisgarh was separated from Madhya Pradesh and became the 26th state of India on 1 November 2000.

S37. Ans.(d)

Sol. Sambhavnath was the third Jain Tirthankara.

S38. Ans.(c)

Sol. The correct answer is Egypt.

- 'Khamsin' wind is a local wind of Egypt.
- 'Khamsin' wind is a hot, and dry wind.
- The capital and largest city of Egypt is Cairo.

S39. Ans.(b)

Sol. Tributaries

- left: Ramganga, Gomti, Karnali, Gandaki, Koshi, Mahananda

- right: Yamuna, Tamsa, Son, Punpun, Tons, Hindon, Kunta, Gir, Rishiganga, Hanuman Ganga, Sasur Khaderi

Sharda: flows southeast another 100 km (62 mi) in Uttar Pradesh to join the Ghaghra (Karnali) as a right-bank tributary. Teesta is a tributary of Jamuna river.

S40. Ans.(b)

Sol. Attorney General of India are appointed by the President of India on the advice of the Union Cabinet under Article 76(1) of the Constitution and hold office during the pleasure of the President.

S41. Ans.(c)

Sol. The National Emblem of India was adopted on the basis of the Ashoka Pillar located at Sarnath, Uttar Pradesh. It was finally declared as the State Emblem of India on 26th January, 1950

S42. Ans.(c)

Sol.

- Mumbai City FC has won Hero Indian Super League 2021.
- The event was held at the GMC Stadium in Goa.
- Mumbai City FC became the second-ever Indian club to qualify to the group stages of the AFC Champions League.

S43. Ans.(c)

Sol.

- The 61st Constitutional Amendment Act, 1989 of the Constitution of India lowered the voting age of elections to the Lok Sabha and to the Legislative Assemblies of States.
- It reduces the age from 21 years to 18 years.



S44. Ans.(b)**Sol.**

- Poverty and Unbritish Rule in India was written by great political leader Dadabhai Naoroji.
- Dadabhai Naoroji, also known as the "Grand Old Man of India" and "Unofficial Ambassador of India".
- In 1906, Naoroji was again elected president of the Indian National Congress

S45. Ans.(c)**Sol.** Joint sitting of the Parliament is chaired by the Speaker of Lok sabha.

- The joint sitting is called by the President.
- Article 108 of the Indian Constitution provides for a joint sitting of both Houses of Parliament.

S46. Ans.(d)**Sol.**

- M. S. Subbulakshmi was the first musician to be felicitated with 'Bharat Ratna', the highest civilian award.
- M. S. Subbulakshmi was an Indian Carnatic singer from Madurai district of Tamil Nadu.
- M. S. Subbulakshmi as the leading exponent of classical and semi-classical songs in the carnatic tradition of South India.
- She was the First Indian who performed in United Nations General Assembly in 1966

S47. Ans.(c)**Sol.**

- According to modern periodic table, Sodium is placed in Group 1.
- Sodium has an atomic number 11.
- Chemical symbol of sodium is Na.
- Sodium metal is very reactive, therefore, stored in kerosene as Sodium doesn't react with kerosene.

S48. Ans.(c)**Sol.**

- Radium is not inert gas.
- It is the sixth element in group 2 of the periodic table, also known as the alkaline earth metals.
- Atomic Number of radium is 88.
- Group 8A (or VIIIA) of the periodic table are the noble gases or inert gases: helium (He), neon (Ne), argon (Ar), krypton (Kr), xenon (Xe), and radon (Rn).

S49. Ans.(a)**Sol.** Samjhauta Express is run between India and pakistan.

- It is a bi-weekly train that runs between Delhi and Attari in India and Lahore in Pakistan.
- By following the Simla Agreement, the train was started in 1976.

S50. Ans.(b)**Sol.**

- World Soil Day is observed on 5 December.
- Its main aims are to focus on the importance of soil and for sustainable management of soil resources.
- It holds water and to maintain adequate aeration.

S51. Ans.(d)

Sol.

$$3(x + 3) - 3(x - 3) \Rightarrow \text{Present age} = 18\text{year.}$$

S52. Ans.(a)

Sol. if $x^3 + y^3 + z^3 - 3xyz = 0$

then $x + y + z = 0$

$$x-5 + x-6 + x-7 = 0$$

$$3x = 18$$

$$x = 6$$

S53. Ans.(c)

Sol. $x + \frac{1}{x} = 3$

$$x^2 + \frac{1}{x^2} = 7$$

$$x^3 + \frac{1}{x^3} = 27 - 9 = 18$$

$$\left(x^2 + \frac{1}{x^2}\right)\left(x^3 + \frac{1}{x^3}\right) = x^5 + \frac{1}{x} + x + \frac{1}{x^5}$$

$$(7)(18) = x^5 + \frac{1}{x^5} + \left(x + \frac{1}{x}\right)$$

$$126 = x^5 + \frac{1}{x^5} + 3$$

$$x^5 + \frac{1}{x^5} = 123$$



S54. Ans.(a)

Sol. 40% of 50 = 20 girls

60% of 50 = 30 Boys

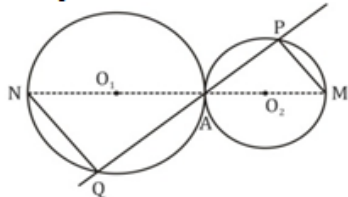
$$Av. = \frac{30 \times 62 + 58 \times 20}{50} = \frac{3020}{50}$$

$$= 60.4$$

S55. Ans.(b)

Sol.

$$\angle AQN = 90^\circ = \angle APM$$



$$\angle NAQ = \angle MAP$$

$$\Delta AQN \sim \Delta APM$$

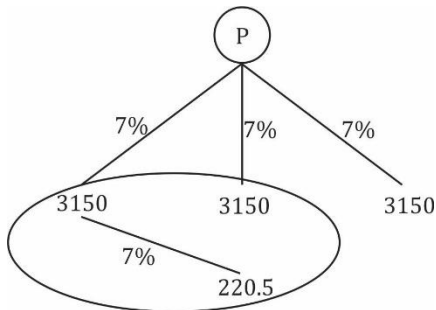
$$\frac{AQ}{AP} = \frac{AN}{AM} = \frac{2 \times 8}{2 \times 5} \Rightarrow \frac{AP}{AQ} = \frac{5}{8}$$

S56. Ans.(b)

Sol. A.T.Q

$$9450 = 21P/100$$

$$P = 4500$$



$$2 \text{ years compound interest} = 6300 + 220.5 = 6520.5$$

S57. Ans.(d)

Sol. 18% → 234

1% → 13

A. T. Q

$$39 \times 13$$

$$= 507$$

S58. Ans.(d)

$$\text{Sol. Increase} = \frac{35}{60} \times 100 = 58.33\%$$

S59. Ans.(a)

$$\text{Sol. } \frac{500+250+325}{3} = 358.33$$

S60. Ans.(b)

$$\text{Sol. HCF } \{432, 594, 702\} = 54$$

$$\text{No. of Cans} = \frac{432}{54}, \frac{594}{54}, \frac{702}{54}, = 8, 11, 13$$

S61. Ans.(a)

$$\text{Sol. } \frac{32 \times 8 \times 6}{64} = x$$

$$x = 24$$

$$\text{total surface area of cube} = 6a^2$$

$$\text{total surface area of all 24 cuboid is}$$

$$6 \times 4 \times 4 \times 24 = 2304$$

S62. Ans.(c)

$$\text{Sol. v. of sphere} = \frac{4}{3} \pi r^3$$

$$R = 6$$

$$r = 2$$

$$\text{No. of Sphere} = \frac{(6)^3}{(2)^3} = \frac{216}{8} = 27$$



S63. Ans.(d)

Sol.

$$\begin{array}{r}
 M \quad : \quad W \\
 2 \quad \quad 5 \\
 | \quad +x \\
 3 \quad : \quad 5 \\
 \quad \quad \quad | -y \\
 \quad \quad \quad 10 \\
 30 - 1 \left(\begin{array}{l} 7 \\ | \\ 2(4) \\ 8 \end{array} : \begin{array}{l} 5 \\ | \\ (5)2 \\ 10 \end{array} \right.
 \end{array}$$

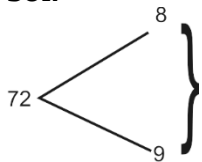
1 unit — 30 litre

$$\begin{array}{r}
 (3)70 \quad : \quad (5)70 \\
 210 \quad \quad 350 \\
 \left. \begin{array}{l} 210 \quad : \quad 300 \\ (2)70 \quad : \quad (5)70 \\ 140 \quad \quad 350 \\ 210 \quad : \quad 300 \end{array} \right\} y = 50 \\
 x = 70 \\
 x + y/3 = 120/3 = 40
 \end{array}$$



S64. Ans.(c)

Sol.



Number should be divisible by both 8 and 9

$$56x34y4$$

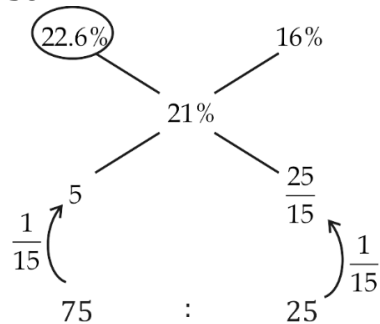
To be divisible by 8, y should be 2

to be divisible by 9, x should be 3

$$\text{So, } x+y = 2+3=5$$

S65. Ans.(b)

Sol.



S66. Ans.(a)**Sol.**

CP (100-Discunt) 100-25 75	MP (100+Profit) 100+20 120
↘	
460	

$$\begin{aligned} \text{M.P.} &= \frac{460}{75} \times 120 \\ &= 736 \text{ Rs.} \end{aligned}$$

S67. Ans.(b)**Sol.**

50P	5	250P	
25P	8	200P	
1Rs	1	100P	
		550P	5500
		1	10

No .of coins of 25P = 80

S68. Ans.(b)

$$\begin{aligned} \text{Sol. Total \% interest} &= \frac{3738}{3 \times 1560} \times 100 \\ &= 7 \frac{77}{78} \% \end{aligned}$$

7%		9%	
↘	$7 \frac{77}{78}$	↙	
↙		↘	
$\frac{79}{78}$		$\frac{77}{78}$	
79	:	77	=
↓		↓	156
×100		×100	
7900		15600	

**S69. Ans.(d)**

$$\begin{aligned} \text{Sol. } \frac{a^3+b^3}{a^2+b^2-ab} &= (a+b) \\ 100 (675+325) &= 100000 \end{aligned}$$

S70. Ans.(a)

$$\begin{aligned} \text{Sol. } \frac{39}{4} &\div \left[\frac{13}{6} + \left\{ \frac{13}{3} - \left(\frac{5}{2} + \frac{3}{4} \right) \right\} \right] \\ &= \frac{39}{4} \div \left[\frac{13}{6} + \frac{13}{12} \right] \\ &= 3 \end{aligned}$$

S71. Ans.(c)

$$\begin{aligned} \text{Sol.} &\Rightarrow \frac{23}{6} + \left[\frac{11}{3} - \left\{ \frac{15}{4} \left(\frac{29}{5} \times \frac{2}{29} \right) \right\} \right] \\ &\Rightarrow \frac{23}{6} + \left[\frac{11}{3} - \frac{3}{2} \right] \\ &\Rightarrow \frac{23}{6} + \frac{13}{6} \\ &\Rightarrow \frac{36}{6} = 6 \end{aligned}$$

S72. Ans.(a)

$$\begin{aligned} \text{Sol.} &= \frac{\sin^2 24^\circ + \sin^2(90^\circ - 24^\circ)}{\cos^2 24^\circ + \cos^2(90^\circ - 24^\circ)} + \sin^2 61^\circ + \cos 61^\circ \sin(90^\circ - 61^\circ) \\ &\Rightarrow \frac{\sin^2 24^\circ + \cos^2 24^\circ}{\cos^2 24^\circ + \sin^2 24^\circ} = 1 + 1 \Rightarrow 2 \end{aligned}$$

S73. Ans.(b)

$$\text{Sol. } \sin(A + B) = \frac{\sqrt{3}}{2}$$

$$A + B = 60^\circ$$

$$\tan(A - B) = \frac{1}{\sqrt{3}}$$

$$A - B = 30^\circ$$

after solving,

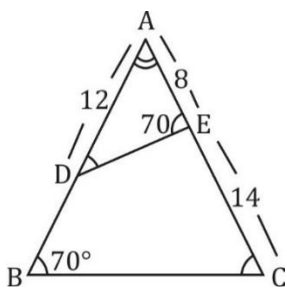
$$A = 45^\circ$$

$$B = 15^\circ$$

$$\text{Req. value} = 90^\circ + 45^\circ = 135^\circ$$

**S74. Ans.(c)**

Sol.



$$\triangle ADE \sim \triangle CAB$$

$$\frac{12}{22} = \frac{8}{AB}$$

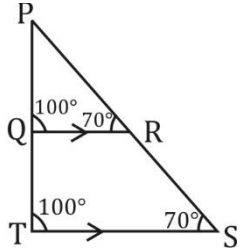
$$AB = \frac{44}{3}$$

$$BD = \frac{44}{3} - 12 = \frac{8}{3}$$

$$\frac{BD}{2} = \frac{4}{3}$$

S75. Ans.(b)

Sol.



$$PQ \times PS = PT \times PR$$

$$\therefore QR \parallel TS$$

$$\angle PTS = \angle PQR = 100$$

$$\angle PST = 100 - 30 = 70^\circ$$

$$\angle PRQ = 70^\circ$$



S76. Ans.(c)

Sol. The correct answer is option c.

The word 'Noisy' is spelt correctly.

Noisy: making or given to making a lot of noise.

S77. Ans.(d)

Sol. The correct answer is option d.

Renounce: formally declare one's abandonment of (a claim, right, or possession).

Spurn: reject with disdain or contempt.

Forsake: abandon or leave.

Approve: officially agree to or accept as satisfactory.

Hence, option (d) is the correct choice.

S78. Ans.(d)

Sol. The correct answer is option d.

The word that can be in the blank is, 'Luxury'.

As per the context of the passage the word 'Luxury' fits in properly & hence it is the correct choice.

S79. Ans.(a)

Sol. The correct answer is option a.

Vigorous: strong, healthy, and full of energy.

Sturdy: (of a person or their body) strongly and solidly built.

Coward: excessively afraid of danger or pain.

Infirm: not physically or mentally strong, especially through age or illness.

Feeble: lacking physical strength.

As option (a) portrays the same meaning as that of the given word, hence it is the correct choice.

S80. Ans.(d)

Sol. The correct answer is option d.

The word that can be filled in the blank is 'Regime'.

As per the context, the word 'Regime' fits in very well & hence, it is the correct choice.

S81. Ans.(c)

Sol. The correct answer is option c.

The word that can be filled in the blank is 'Called'.

As per the context, the word 'Called' fits in very well & hence, it is the correct choice.

S82. Ans.(a)

Sol. The correct answer is option a.

The word that can be filled in the blank is 'Economies.'

As per the context, the word 'Economies' fits in very well & hence, it is the correct choice.

S83. Ans.(d)

Sol. The correct answer is option d.

The word that can be filled in the blank is 'Unpredictable.'

As per the context, the word 'Unpredictable' fits in very well & hence, it is the correct choice.

S84. Ans.(c)

Sol. The correct answer is option c.

The word that can be filled in the blank is 'During'.

As per the context, the word 'During' fits in very well & hence, it is the correct choice.

S85. Ans.(d)

Sol. The correct answer is option d.

The given sentence is 'Direct Speech'.

Direct Speech - Reporting the message of the speaker in the exact words as spoken by him.

The given sentence is 'Assertive sentence.'

While changing it into an indirect form, we consider following rules.

Reported Verb - 'Said' remains unchanged. (as the listener is unknown.)

Conjunction - In the Assertive sentence conjunction 'That' is used.

This changed to 'That.'

The sentence thus formed is - Ram said that he had a dental appointment that evening.

S86. Ans.(b)

Sol. The correct answer is option b.

In the same boat - It is an idiomatic expression which means, 'in the same unpleasant or difficult situation'.

Option (b) portrays the same meaning as that of the given idiom & hence it is the correct choice.

S87. Ans.(c)

Sol. The correct answer is option c.

Ample: enough or more than enough.

Dearth: a scarcity or lack of something.

Hence, option (c) is the correct choice.

S88. Ans.(d)

Sol. The correct answer is option d.

Entomology - The study of insects and their relationship to humans, the environment, and other organisms.

Option (d) portrays the same meaning as that of the given group of words & hence it is the correct choice.

S89. Ans.(b)

Sol. The correct answer is option b.

Benevolent: giving money or help to people or organizations that need it.

Stingy: mean; ungenerous.

Generous: willing to give money, help, kindness, etc., especially more than is usual or expected.

Option (b) portrays the same meaning as that of the given word & hence it is the correct choice.

S90. Ans.(b)

Sol. The correct answer is option b.

The error lies in part b of the sentence.

Replace 'Her' by 'She' to make the sentence grammatically correct.

The subjective/ nominative pronouns are 'I, you (singular), he/she/it, we, you (plural), they and who'. A subjective pronoun acts as a subject in a sentence.

When a pronoun follows a linking verb, such as "Is," the pronoun should be in the subjective case.

The objective /accusative case pronouns are - Me, You (singular), Him/Her/It, Us, You (plural), Them & Whom. The objective case is used when something is being done to (or given to, etc.) someone.

The sentence thus formed is - It is she who came with us to the restaurant.

S91. Ans.(c)

Sol. The correct answer is option c.

The proper arrangement is - **CDAB**

C - It is the opening sentence as it introduces the topic, 'Daily routine'.

D - It states more about the importance of habits and the disadvantage of poorly-planned days.

A - It informs that setting up good habits will help to have energizing, time-saving routines.

B - It concludes by stating that the choice is up to you to have a good routine or bad routine.

S92. Ans.(a)

Sol. The correct answer is option a.

The given sentence is of 'Active voice'.

The sentence is said to be in active voice when 'Subject' is active & does something.

In the given sentence, the subject is 'Shobha' & the subject performs some action (paid the electric bill)

Now we have to convert it into passive voice.

Passive voice - If the sentence is in passive form, the subject remains inactive. It does nothing, but allows something to be done.

In the passive form, the object of the verb in Active voice becomes the subject of the verb in the Passive voice. 'By' is introduced as now the subject receives the action by the object.

The sentence thus formed is - The electric bill was paid by Shobha.

S93. Ans.(b)

Sol. The correct answer is option b.

Indelible- That cannot be removed, washed away, or erased.

Option (b) portrays the same meaning as that of the given group of words & hence it is the correct choice.

S94. Ans.(b)

Sol. The correct answer is option b.

The word that can be filled in the blank is 'Who'.

As per the context, the word 'Who' fits in very well & hence, it is the correct choice.

S95. Ans.(a)

Sol. The correct answer is option a.

Turn one's face to the wall: to die.

Option (a) portrays the same meaning as that of the given idiom & hence, it is the correct choice.

S96. Ans.(d)

Sol. The correct answer is option d.

The correct spelling is 'Commendable'.

Remaining words are spelt correctly.

S97. Ans.(b)

Sol. The correct answer is option b.

The error lies in part b of the sentence. Replace 'Less' with 'Fewer' to make the sentence grammatically correct.

Less - Less is the comparative form of 'Little'. It is used especially before uncountable nouns.

Fewer - It is the comparative of 'Few'. It is used before plural nouns.

In the given sentence, the noun is countable (twenty persons). Hence, the usage of an adjective 'Less' is incorrect here.

The sentence thus formed is - No fewer than twenty persons were hurt in the accident.

S98. Ans.(a)

Sol. The correct answer is option a.

Replace 'No sooner did' with 'No sooner does' to make the sentence grammatically correct.

The structure 'No Sooner' is used to talk about something that happens immediately after something else.

The given sentence is in simple present tense. Hence, usage & also the subject is a third person singular hence it takes singular verb 'Does'.

No sooner + 1st event (monsoon start) + than + 2nd event (farmers become happy)

The sentence thus formed is - No sooner does the monsoon start than the farmers become happy.

S99. Ans.(c)

Sol. The correct answer is option c.

Replace 'hadn't it?' with 'Hasn't it?' to make the sentence grammatically correct.

The given sentence is of 'Question Tag.'

A question tag - Question tags are short questions at the end of statements.

They are mainly used in speech when we want to -

Confirm that something is true or not, or to encourage a reply from the person we are speaking to.

A positive statement is followed by a negative question tag. A negative statement is followed by a positive question tag.

The sentence thus formed is - The heat has become scorching, hasn't it?

S100. Ans.(c)

Sol. The correct answer is option c.

The proper arrangement is- **ACDB**

A - It is the opening sentence as it introduces the topic, 'Importance of Raisins'.

C - It informs further that if we soak them in water it will act as a natural medicine or agent for relieving constipation.

D - It states the importance of eating soaked raisins.

B - It concludes by stating that eating soaked raisins helps to have a better digestive system



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