

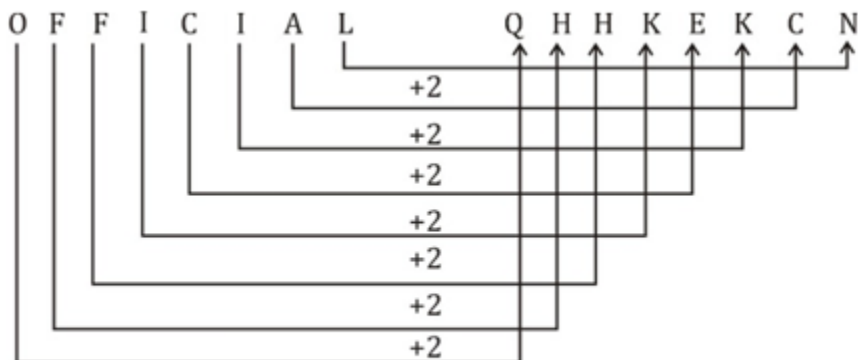
Solution

S1. Ans.(d)

Sol. Goal is the keyword of football and basket is related with basket ball.

S2. Ans.(b)

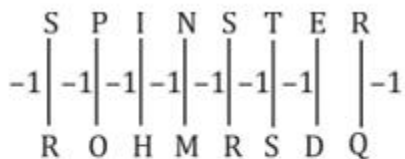
Sol.



Similarly, LANGUAGE \Rightarrow NCPIWCIG

S3. Ans.(c)

Sol.



Similarly,



S4. Ans.(d)

Sol.

$12 \times 6 = 72$, Similarly, $13 \times 6 = 78$

S5. Ans.(d)

Sol.


SYDNEY is not part of USA.

S6. Ans.(b)

Sol. There are +3 gap between each letters, except FG.



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S7. Ans.(a)

Sol.

$$2 + 3 + 7 + 8 = 20$$

$$9 + 1 + 2 + 2 = 14$$

$$1 + 5 + 1 + 7 = 14$$

$$2 + 3 + 4 + 5 = 14$$

S8. Ans.(d)

Sol. Except 64, other number are not perfect square.

S9. Ans.(a)

Sol. Correct sequence is-

Methane → Ethane → Propane → butane → Pentane → hexane
↓
Octane ← Heptane

S10. Ans.(a)

Sol.

EFHHI $\xrightarrow{+3}$ LMNO $\xrightarrow{+3}$ RST $\xrightarrow{+3}$ WX $\xrightarrow{+3}$ A

S11. Ans.(c)

Sol.

TU $\xrightarrow{+9}$ 8 letter Gap between DE & TU,

NO $\xrightarrow{+9}$ XY

S12. Ans.(a)

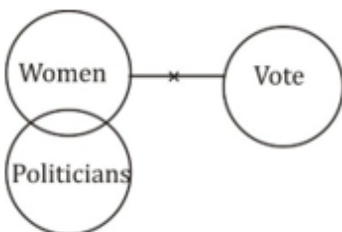
Sol.

4, 9, 19, 39, 79
└─┘ └─┘ └─┘ └─┘
5 10 20 40

So, 4 is correct answer.

S13. Ans.(c)

Sol.



1. × }
2. × } Neither I nor II follows.

S14. Ans.(d)

Sol.

$$M > K > L > J$$

$$\quad \quad \quad \downarrow$$

$$\quad \quad \quad \rightarrow I$$

So, Income is the maximum → M

S15. Ans.(d)

Sol.

The correct sequence is-

Examination → Expenditure → Experience → Explicit.

S16. Ans.(b)

Sol.

N	U	M	B	E	R	&	B	A	R	R	E	N
1	5	6	8	9	7		8	4	7	7	9	1

Similarly,

R	U	B	B	E	R
7	5	8	8	9	7

S17. Ans.(c)

Sol.

$$6^2 + 7^2 = 85$$

$$8^2 + 9^2 = 145$$

$$12^2 + 14^2 = 340$$

S18. Ans.(a)

Sol.

$$96 \div 4 - 6 + 11 \times 9 = 24 - 6 + 99 = 117$$

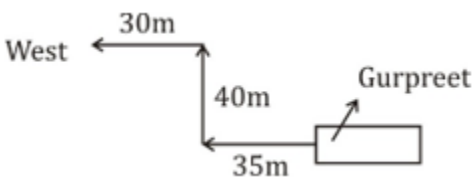
S19. Ans.(c)

Sol.

CDDE/ CDDE/ CDDE

S20. Ans.(c)

Sol.



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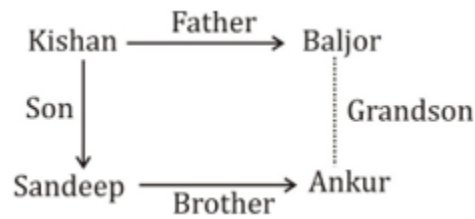
S21. Ans.(b)

Sol.

PRIME → 33, 34, 00, 97, 56

S22. Ans.(a)

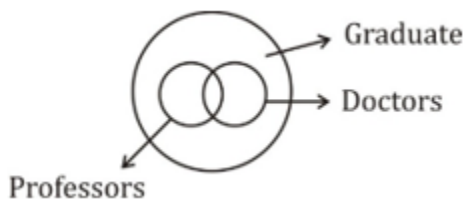
Sol.



S23. Ans.(c)

S24. Ans.(a)

Sol.



S25. Ans.(b)

S26. Ans.(a)

Sol. A logic error is a bug in a program that causes it to operate incorrectly and it is identified by compiler.

S27. Ans.(b)

Sol. Igor Sikorsky, a Russian is recognized as father of modern helicopters.

S28. Ans.(b)

Sol. Beriberi is a disease caused by a vitamin B-1 deficiency also known as thiamine deficiency.

S29. Ans.(d)

Sol. Chlorophyll was first isolated and named by Joseph Bienaime Caventou and Pierre Joseph Pelletier in 1817.

S30. Ans.(b)

Sol. Cell theory is not applicable on Viruses. They are made up of proteins and one of nucleic acids i.e. DNA or RNA. So they lack protoplasm, the essential part of the cell.

S31. Ans.(a)

Sol. Transition metals doesn't have tendency to gain electrons.

S32. Ans.(d)

Sol. Ethylene is a hydrocarbon which has the formula C_2H_4 since the double bond is between two carbon atoms so there is no difference in electronegativity. That's why the shared pair of electron come lie in between those to carbon atoms, so ethylene is non polar.

S33. Ans.(b)

Sol. The Gateway of India foundation was laid on 31 March 1911. The structure is an arch made of basalt, 26 metres (85 feet) high. The final design of George Wittet was sanctioned in 1914 and the construction of the monument was completed in 1924.

S34. Ans.(a)

Sol. Pablo Picasso (October 25, 1881 to April 8, 1973) was a Spanish expatriate painter, sculptor, printmaker, ceramicist and stage designer considered one of the greatest and most influential artists of the 20th century .

S35. Ans.(a)

Sol. $B. E. Q = \text{Fixed cost} / (\text{price per unit} - \text{variable cost})$

Price per unit = 30/12

= 2.5

$B.E.Q = 20000 / (2.5 - 1.5)$

= 20000.

S36. Ans.(d)

Sol. The demand curve facing a perfectly competitive firm is perfectly elastic.

S37. Ans.(c)

Sol. Active charcoal carbon filters are most effective at removing chlorine, sediment, volatile organic compounds (VOCs), taste and odour from water.

S38. Ans.(d)

Sol. Nagarhole National Park, also known as Rajiv Gandhi National Park, is a wildlife reserve in the South Indian state of Karnataka. Part of the Nilgiri Biosphere Reserve, the park is backed by the Brahmagiri Mountains and filled with sandalwood and teak trees.

S39. Ans.(d)

Sol. The Film and Television Institute of India is an autonomous institute under the Ministry of Information and Broadcasting of the Government of India and aided by the Central Government of India. It is located at Pune.

S40. Ans.(b)

Sol. The average temperature on Earth is about 16 Celsius.

S41. Ans.(d)

Sol. Raipur is the capital of Chhattisgarh.

S42. Ans.(d)

Sol. Mohandas Karamchand Gandhi was born on 2 October 1869 in Porbandar, Gujarat.

S43. Ans.(b)

Sol. Bahadur Shah (First) was born in 1643.

S44. Ans.(c)

Sol. Theodore Roosevelt was the first American to win a Nobel Prize. Theodore Roosevelt, President of the USA, received the Peace Prize for having negotiated peace in the Russo-Japanese war in 1904-5.

S45. Ans.(d)

Sol. Acceleration is directly proportional to force. Acceleration, in physics, is the rate of change of velocity of an object with respect to time. An object's acceleration is the net result of any and all forces acting on the object, as described by Newton's Second Law.

S46. Ans.(b)

Sol. The water level remains the same when the ice cube melts. A floating object displaces an amount of water equal to its own weight. Since water expands when it freezes, one ounce of frozen water has a larger volume than one ounce of liquid water.

S47. Ans.(b)

Sol. The Constitution of India was framed by Constituent Assembly.

S48. Ans.(a)

Sol. The minimum age to qualify for Lok Sabha Elections is 25 years.

S49. Ans.(b)

Sol. Virendra Sehwag is first Indian to score triple century in test match.

S50. Ans.(a)

Sol. Interpreter of Maladies is a book collection of nine short stories by Indian American author Jhumpa Lahiri published in 1999.

S51. Ans.(c)

Sol.

The distance of 400m will be covered with relative velocity.

$$\text{Time taken to catch the thief} = \frac{400}{(9-5) \times \frac{5}{18}}$$

$$= 360 \text{ sec.}$$

$$\text{Required distance} = 5 \times \frac{5}{18} \times 360$$

$$= 500 \text{ metre}$$

S52. Ans.(c)

Sol.

$$\text{From } 2x - 3(4 - 2x) < 4x - 5$$

$$\Rightarrow x < \frac{7}{4}$$

$$\text{From } 4x - 5 < 4x + \frac{2x}{3}$$

$$\Rightarrow x > -7.5$$

From given options, only $x = 0$ satisfies both conditions.



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S53. Ans.(a)

Sol.

$$\begin{aligned}x &= \frac{1}{(\tan A + \cot A)} \\&= \frac{1}{\left(\frac{\sin A}{\cos A} + \frac{\cos A}{\sin A}\right)} \\&= \frac{1}{\frac{\sin^2 A + \cos^2 A}{\sin A \cos A}} \\&= \sin A \cos A\end{aligned}$$

S54. Ans.(b)

Sol. Only isosceles trapezium has two pairs of consecutive angles

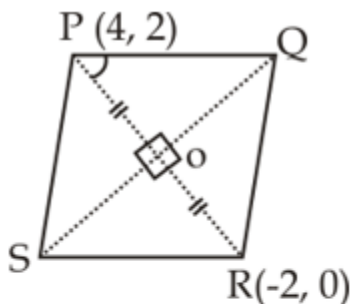
S55. Ans.(c)

Sol.

$$\begin{aligned}\text{Max. marks} &= \frac{(47+43)}{25\%} \times 100\% \\&= 360\end{aligned}$$

S56. Ans.(b)

Sol.



As diagonals of rhombus are perpendicular bisectors on each other.

$$\therefore \text{Point } O = \left[\frac{4+(-2)}{2}, \frac{2+0}{2} \right] = (1, 1)$$

$$\text{Slope of line } PR = \left[\frac{0-2}{-2-4} \right] = \frac{1}{3}$$

$$\text{Slope of line } SQ = -3$$

$$\text{Eqn of lines } SQ = (y - 1) = -3(x - 1)$$

$$\Rightarrow 3x + y = 4$$

S57. Ans.(a)

Sol.

$$(a - b) = 11$$

$$a^2 + b^2 - 2ab = 121$$

$$a^2 + b^2 = 121 + 2 \times 24$$

$$= 169$$

S58. Ans.(d)

Sol.

Let the rate be R%.

$$40P = \frac{100P \times R \times 8}{100} \Rightarrow R = 5\%$$

$$CI = 30000 \left[\left(1 + \frac{5}{100} \right)^2 - 1 \right]$$
$$= \text{Rs } 3075$$

S59. Ans.(a)

Sol.

Length of Arc = 11

$$\frac{\theta}{180^\circ} \times \pi r = 11$$

$$\theta = \frac{11 \times 180 \times 7}{22 \times 14}$$

$$= 45^\circ$$

S60. Ans.(c)

Sol.

$$\text{Discount\%} = \frac{1200 - 960}{1200} \times 100$$

$$= 20\%$$

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S61. Ans.(b)

Sol.

$$\Rightarrow (x + 3)^2 + (x - 1)^2$$

$$\Rightarrow x^2 + 9 + 6x + x^2 + 1 - 2x$$

$$\Rightarrow 2x^2 + 4x + 10$$

$$\Rightarrow 2(x^2 + 2x + 5)$$

S62. Ans.(c)

Sol.

Required sum = 59 + 61 + 67

$$= 187$$

S63. Ans.(a)

Sol.

ATQ,

$$\pi (4)^2 \times (5) = \frac{1}{3} \pi (6)^2 \times h$$

$$h = \frac{16 \times 5 \times 3}{36}$$

$$= 6.67 \text{ cm}$$

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S64. Ans.(d)

Sol.

$$CP : MP$$

$$(100-D) : (100+P)$$

$$(100-20) : (100+28)$$

$$80 : 128$$

$$\left. \begin{array}{l} 80 : 128 \\ \end{array} \right) D = 14\%$$

New SP = 110.08

$$P\% = \frac{110.08 - 80}{80} \times 100$$

$$= 37.6\%$$

S65. Ans.(a)

Sol.

Let point B = (x, y)

ATQ,

$$\frac{11 + x}{2} = 2 \text{ \& } \frac{5 + y}{2} = 1$$

$$\Rightarrow x = -7 \text{ \& } y = -3$$

$$\therefore \text{Point B} = (-7, -3)$$



S66. Ans.(a)

Sol.

Let the selected and non selected candidates be 4x & x respectively. ATQ,

$$\frac{4x - 20}{x - 70} = \frac{5}{1}$$

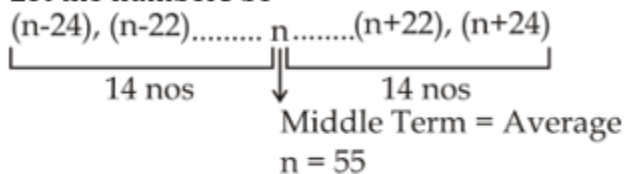
$$\Rightarrow x = 330$$

$$\therefore \text{Total applications} = 5x = 1650$$

S67. Ans.(a)

Sol.

Let the numbers be



$$\text{Highest no.} = (n + 24)$$

$$= (55 + 24)$$

$$= 79$$

S68. Ans.(c)

Sol.

Let the original no. be $(10x + y)$

ATQ,

$$xy = 24 \quad \dots(i)$$

&

$$(10x + y) + 45 = (10y + x)$$

$$9y - 9x = 45$$

$$y - x = 5 \quad \dots(ii)$$

On solving eqn (i) & (ii)

$$x = 3 \text{ \& } y = 8$$

\therefore Original no is 38

S69. Ans.(c)

Sol.

$$\sin \frac{11\pi}{6} = \sin \left(2\pi - \frac{\pi}{6} \right)$$

$$= -\sin \frac{\pi}{6} = -\frac{1}{2}$$

S70. Ans.(b)

Sol.

Let the efficiency of sister and mother be S and M respectively.

ATQ,

$$\frac{S \times 25}{50} = \frac{(S + M) \times 15}{75}$$

$$\Rightarrow \frac{S}{M} = \frac{2}{3}$$

Now,

$$\frac{2 \times 25}{50} = \frac{3 \times 15}{x}$$

$$\Rightarrow x = 45 \text{ cakes}$$

S71. Ans.(c)

Sol.

General formula,

$$\sin C - \sin D = 2 \cos \left(\frac{C+D}{2} \right) \sin \left(\frac{C-D}{2} \right)$$

S72. Ans.(c)

Sol.

$$\text{Required \%} = \frac{40}{40 + 40} \times 100$$


$$= 50\%$$





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S73. Ans.(a)

Sol.

Month	Pr oduction
Jan	480
Feb	570
March	580
April	340
May	700
June	660

Total cars manufactured in the months of April and May

$$= 340 + 700$$

$$= 1040$$

S74. Ans.(b)

Sol.

Total distance = 17 km

$$\text{Total calories burned} = \frac{400}{5} \times 17$$

$$= 1360$$

S75. Ans.(d)

Sol.

$$\text{Required \%} = \frac{12+4}{(12+6+3+4+3)} \times 100$$
$$= 57.14\%$$



S76. Ans. (c)

Sol. an intention is always represented by “plan”.

S77. Ans. (d)

Sol. No improvement

S78. Ans. (b)

Sol. thespian: relating to drama and the theatre.

S79. Ans. (a)

Sol. engulf: a natural force sweep over something so as to surround or cover it completely.

S80. Ans. (c)

Sol. As the “duration” has been given thus present perfect or present perfect continuous should be used. however “v3” has been given thus “perfect continuous” should be used. however, passive should be used.

Venezuela have deprived of food and medicine for the past year. (incorrect)

Venezuela have been deprived of food and medicine for the past year. (correct).

S81. Ans. (c)

Sol. turn a blind eye: pretend not to notice.

S82. Ans. (d)

S83. Ans. (d)

Sol. sheath: a close-fitting cover for the blade of a knife or sword.

S84. Ans. (c)

Sol. primed: to make something ready for use or action, in particular.

Prepped: to prepare something ready.

S85. Ans. (a)

S86. Ans. (a)

Sol. "to +v1" (infinitive) is changed to "to +be +v3" (passive infinitive) in passive. Thus option (a) is correct. Answer given by ssc is (a) that in correct.

S87. Ans. (d)

Sol. pilferer: a thief who steals without using violence.

Punk: A worthless person (often used as a general term of abuse).

S88. Ans. (b)

Sol. whisk: take or move (someone or something) somewhere suddenly and quickly.

Flit: move swiftly and lightly.

S89. Ans. (b)

S90. Ans. (c)

Sol. Genre: a style or category of art, music, or literature.

S91. Ans. (d)

Sol. Up a blind alley: you mean that someone is following a course of action that is certain to lead to an undesirable outcome.

S92. Ans. (a)

Sol. tapestry: a piece of thick textile fabric with pictures or designs formed by weaving coloured weft threads or by embroidering on canvas, used as a wall hanging or soft furnishing.

S93. Ans. (d)

Sol. emulation: effort to match or surpass a person or achievement, typically by imitation.

Simulation: imitation of a situation or process.

S94. Ans. (c)

Sol. "then" is a adverb of time, for comparison we use "than". Thus option (c) is correct.

S95. Ans. (d)

Sol. no error


S96. Ans. (a)

S97. Ans. (d)

S98. Ans. (c)


S99. Ans. (a)

S100. Ans. (b)



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