

SBI PO Pre Memory Based Mock 2016 : 14-Nov-2021 (Solutions)

S1. Ans.(a)

Sol.

I. $G = F \leq C = D \leq E$ (TRUE)

II. $A > B \leq C \geq F = G > H$ (FALSE)

S2. Ans.(d)

Sol.

I. $V = U \leq T > S$ (FALSE)

II. $B < V = U \leq T \leq H$ (FALSE)

S3. Ans.(b)

Sol.

I. $H \geq R > K \leq L$ (FALSE)

II. $R > K > F$ (TRUE)

S4. Ans.(d)

Sol.

I. $N \geq P \leq Q$ (FALSE)

II. $Z > Q \geq P > K < T$ (FALSE)

S5. Ans.(e)

Sol.

I. $N \leq O = H \leq E$ (TRUE)

II. $S > H > P$ (TRUE)



S6. Ans.(b)

Sol.

Boxes	Colours
O	Silver
K	Orange
M	Yellow
N	Green
L	Pink
G	Brown
J	White

S7. Ans.(c)

Sol.

Boxes	Colours
O	Silver
K	Orange
M	Yellow
N	Green
L	Pink
G	Brown
J	White



S8. Ans.(a)

Sol.

Boxes	Colours
O	Silver
K	Orange
M	Yellow
N	Green
L	Pink
G	Brown
J	White

S9. Ans.(c)

Sol.

Boxes	Colours
O	Silver
K	Orange
M	Yellow
N	Green
L	Pink
G	Brown
J	White

S10. Ans.(e)

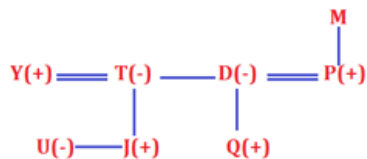
Sol.

Boxes	Colours
O	Silver
K	Orange
M	Yellow
N	Green
L	Pink
G	Brown
J	White



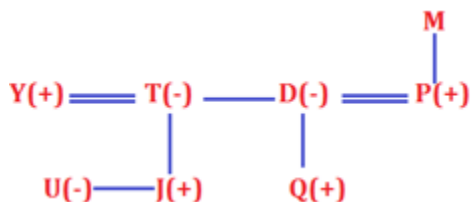
S11. Ans.(c)

Sol.



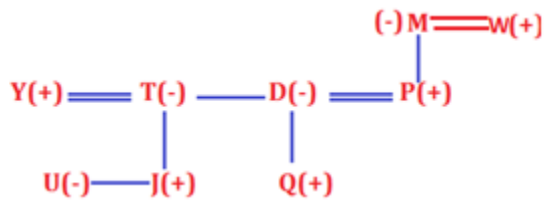
S12. Ans.(d)

Sol.



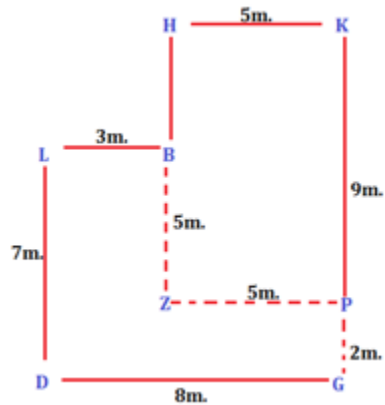
S13. Ans.(b)

Sol.



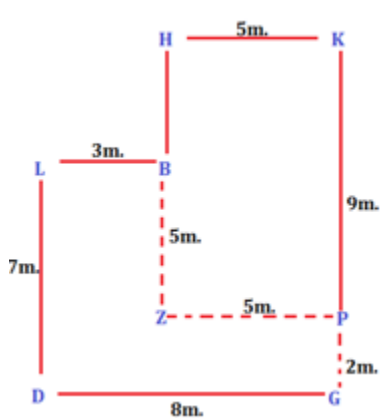
S14. Ans.(c)

Sol.



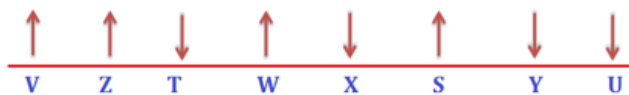
S15. Ans.(c)

Sol.



S16. Ans.(b)

Sol.



S17. Ans.(d)

Sol.



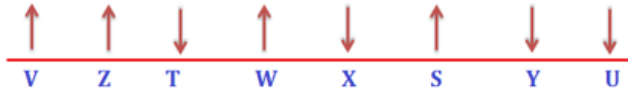
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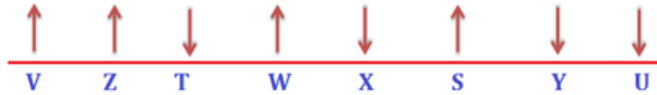
S18. Ans.(b)

Sol.



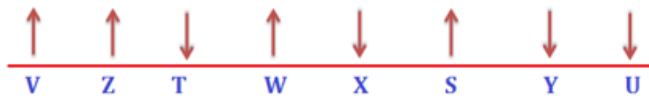
S19. Ans.(a)

Sol.



S20. Ans.(b)

Sol.



S21. Ans.(b)

Sol.

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

S22. Ans.(a)

Sol.

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

S23. Ans.(c)

Sol.

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

S24. Ans.(d)

Sol.

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

S25. Ans.(c)

Sol.

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

S26. Ans.(c)

Sol.

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

S27. Ans.(c)

Sol.

Persons	Department	Colour
W	R&D	Violet
X	Marketing	Green
Y	HR	Blue
Z	R&D	Red
M	Marketing	Purple
N	R&D	Black
O	HR	Pink

S28. Ans.(d)

Sol.

Months in which persons are attending ceremony	Different Persons	Fruits
January	V	Apple
February	U	Papaya
March	Q	Litchi
June	R	Grapes
August	P	Banana
October	T	Orange
December	S	Mango

S29. Ans.(e)

Sol.

Months in which persons are attending ceremony	Different Persons	Fruits
January	V	Apple
February	U	Papaya
March	Q	Litchi
June	R	Grapes
August	P	Banana
October	T	Orange
December	S	Mango

S30. Ans.(c)

Sol.

Months in which persons are attending ceremony	Different Persons	Fruits
January	V	Apple
February	U	Papaya
March	Q	Litchi
June	R	Grapes
August	P	Banana
October	T	Orange
December	S	Mango

S31. Ans.(b)

Sol.

Months in which persons are attending ceremony	Different Persons	Fruits
January	V	Apple
February	U	Papaya
March	Q	Litchi
June	R	Grapes
August	P	Banana
October	T	Orange
December	S	Mango

S32. Ans.(a)

Sol.

Months in which persons are attending ceremony	Different Persons	Fruits
January	V	Apple
February	U	Papaya
March	Q	Litchi
June	R	Grapes
August	P	Banana
October	T	Orange
December	S	Mango

S33. Ans.(a)

Sol.

Size of shelf in which different books are kept:

D's shelf > A's shelf > C's shelf > E's shelf > F's shelf > B's shelf

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S34. Ans.(e)

Sol.

Size of shelf in which different books are kept:

D's shelf > A's shelf > C's shelf > E's shelf > F's shelf > B's shelf

S35. Ans.(b)

Sol.

Size of shelf in which different books are kept:

D's shelf > A's shelf > C's shelf > E's shelf > F's shelf > B's shelf

S36. Ans.(d)

Sol.

$$\text{Required members} = \frac{130}{100} \times 220 = 286$$

S37. Ans.(e)

Sol.

$$\text{Required Ratio} = \frac{60+210}{70+150} = \frac{270}{220} = 27 : 22$$

S38. Ans.(e)

Sol.

$$\begin{aligned}\text{Required \%} &= \frac{60}{150} \times 100 \\ &= 20 \times 2 = 40\%\end{aligned}$$

S39. Ans.(b)

Sol.

$$\begin{aligned}\text{Required \%} &= \frac{(60+140+200+70)-(240+150)}{(240+150)} \times 100 \\ &= \frac{470-390}{390} \times 100 \\ &= \frac{80}{390} \times 100 = 20.51\%\end{aligned}$$

S40. Ans.(c)

Sol.

$$\begin{aligned}\text{Required \%} &= \frac{(240+150)-(170+70)}{(170+70)} \times 100 \\ &= \frac{150}{240} \times 100 = 62.5\%\end{aligned}$$

S41. Ans.(a)

Sol.

$$\times 0.5 + 1, \times 1 + 1, \times 1.5 + 1, \times 2 + 1 \dots \dots$$

S42. Ans.(b)

Sol.

$$\times 1 - 2, \times 2 - 3, \times 3 - 4, \times 4 - 5, \times 5 - 6 \dots \dots$$

S43. Ans.(c)

Sol.

+3, +5, +9, +15.....

+2, +4, +6.....

$15+8=23$, $43+23=66$.

S44. Ans.(e)

Sol.

$1^3 + 1, 4^3 - 4, 2^3 + 2, 5^3 - 5, 3^3 + 3, 6^3 - 6$

$6^3 - 6 = 210$

S45. Ans.(a)

Sol.

series is

$\times 2 + (4 + 4 \times 0)$

$\times 2 + (4 + 4 \times 0 + 4 \times 1)$

$\times 2 + (4 + 4 \times 0 + 4 \times 1 + 4 \times 2)$.. so on

S46. Ans.(e)

Sol.

Required no. of employees

$$= \frac{60}{100} \times \frac{30}{100} \times 300 + \frac{40}{100} \times \frac{10}{100} \times 300$$
$$= 54 + 12 = 66$$

S47. Ans.(d)

Sol.

Required Ratio = 65 : 20

= 13 : 4

S48. Ans.(d)

Sol.

HR employees in company P = $26 \times 4 = 104$

Marketing employee in company T = $10 \times 3 = 30$

Required % = $\frac{104-30}{30} \times 100 = 246.67\%$

S49. Ans.(c)

Sol.

$$\text{Required Ratio} = \frac{48+140}{22+21} = \frac{188}{43} = 188 : 43$$

S50. Ans.(a)

Sol.

Required difference

= $(56 + 65 + 70 + 54) - (28 + 35 + 22 + 21)$

= $245 - 106 = 139$



S51. Ans.(b)

Sol.

$$\begin{array}{ccc} \frac{3}{5} & & \frac{4}{9} \\ & \searrow \quad \swarrow & \\ & \frac{1}{2} & \\ & \swarrow \quad \searrow & \\ \left(\frac{1}{2} - \frac{4}{9} = \frac{1}{18}\right) & & \left(\frac{3}{5} - \frac{1}{2} = \frac{1}{10}\right) \end{array}$$

$$\begin{aligned} \text{Ratio} &= \frac{1}{18} : \frac{1}{10} \\ &= 10 : 18 = 5 : 9 \end{aligned}$$

$$\begin{aligned} \text{Required Quantity} &= \frac{3}{5} \times 9 \\ &= \frac{27}{5} = 5 \frac{2}{5} \text{ litre} \end{aligned}$$

S52. Ans.(c)

Sol.

$$\begin{aligned} \text{S.P. of two bullock} &= 8400 + 8400 \\ &= 16800 \text{ Rs.} \end{aligned}$$

CP of first bullock

$$\begin{aligned} &= \frac{100}{120} \times 8400 \\ &= 7000 \end{aligned}$$

$$\text{CP of second bullock} = 16800 - 7000 = 9800$$

$$\text{Required \% loss} = \frac{9800 - 8400}{9800} \times 100$$

$$= \frac{1400}{9800} \times 100$$

$$= \frac{7}{49} \times 100$$

$$= \frac{100}{7} = 14 \frac{2}{7} \%$$



S53. Ans.(c)

Sol.

$$\frac{S_2}{S_1} = \sqrt{\frac{\frac{24}{5}}{\frac{10}{8}}} = \sqrt{\frac{72}{50}}$$

$$\frac{S_2}{S_1} = \sqrt{\frac{36}{25}} = \frac{6}{5}$$

$$\begin{aligned} S_2 &= \frac{45 \times 6}{5} \\ &= 54 \text{ km/hr} \end{aligned}$$

S54. Ans.(d)

Sol.

$$\text{Saving \%} = 100 - (20 + 56) = 24\%$$

$$\therefore 24\% = 1800$$

$$\therefore 100\% = \frac{1800}{24} \times 100 = 7500 \text{ Rs.}$$



S55. Ans.(b)

Sol.

In 6 days part of the work done by

$$A = \frac{6}{8} = \frac{3}{4}$$

during 2 days, part of the work destroyed

$$\text{by } B = \frac{2}{3}$$

$$\text{work done} = \frac{3}{4} - \frac{2}{3} = \frac{9-8}{12} = \frac{1}{12}$$

$$\text{Remaining work} = 1 - \frac{1}{12} = \frac{11}{12}$$

$$\therefore \text{Required no of days} = \frac{11}{12} \times 8$$

$$= 7\frac{1}{3} \text{ days.}$$

S56. Ans.(c)

Sol.

$$? = \frac{394 \times 57}{100} - \frac{996 \times 2.5}{100}$$

$$= \frac{400 \times 57}{100} - \frac{1000 \times 2.5}{100}$$

$$= 228 - 25 = 203$$

$$\therefore \text{Required answer} = 200$$

S57. Ans.(d)

Sol.

$$? = 97 \times 10 + 1 = 971$$

$$\therefore \text{Required answer} = 965$$

S58. Ans.(d)

Sol.

$$? = \frac{3}{5} \times \frac{1125}{1228} \times 7 = 4$$

S59. Ans.(b)

Sol.

$$? = \frac{\sqrt{339 \times 25}}{30} = 15$$

S60. Ans.(e)

Sol.

$$? = \frac{638 + 9709 - 216}{26} = 390$$



S61. Ans.(b)**Sol.**

$$6x^2 + 21x + 10x + 35 = 0$$

$$3x(2x + 7) + 5(2x + 7) = 0$$

$$(3x + 5)(2x + 7) = 0$$

$$x = \frac{-5}{3}, \frac{-7}{2}$$

$$2y^2 + 2y + y + 1 = 0$$

$$2y(y + 1) + 1(y + 1) = 0$$

$$(2y + 1)(y + 1) = 0$$

$$y = \frac{-1}{2}, -1$$

$$x < y$$

S62. Ans.(e)**Sol.**

$$2x^2 - 4x - \sqrt{41}x + 2\sqrt{41} = 0$$

$$2x(x - 2) - \sqrt{41}(x - 2) = 0$$

$$x = 2, \frac{\sqrt{41}}{2}$$

$$10y^2 - 18y - 5\sqrt{41}y + 9\sqrt{41} = 0$$

$$2y(5y - 9) - \sqrt{41}(5y - 9) = 0$$

$$y = \frac{9}{5}, \frac{\sqrt{41}}{2}$$

Relation can not be established

S63. Ans.(c)**Sol.**

$$2x^2 + 4x + 5x + 10 = 0$$

$$2x(x + 2) + 5(x + 2) = 0$$

$$x = -2, \frac{-5}{2}$$

$$4y^2 + 28y + 45 = 0$$

$$4y^2 + 18y + 10y + 45 = 0$$

$$2y(2y + 9) + 5(2y + 9) = 0$$

$$y = \frac{-5}{2}, \frac{-9}{2}$$

$$x \geq y$$

S64. Ans.(e)**Sol.**

$$15x^2 - 20x + 9x - 12 = 0$$

$$5x(3x - 4) + 3(3x - 4) = 0$$

$$x = \frac{-3}{5}, \frac{4}{3}$$

$$20y^2 - 25y - 24y + 30 = 0$$

$$5y(4y - 5) - 6(4y - 5) = 0$$

$$y = \frac{6}{5}, \frac{5}{4}$$

No relation can be established



S65. Ans.(e)

Sol.

$$2x^2 - 10x + 3x - 15 = 0$$

$$2x(x - 5) + 3(x - 5) = 0$$

$$x = -\frac{3}{5}, 5$$

$$6y^2 + 14y + 3y + 7 = 0$$

$$2y(3y + 7) + 1(3y + 7) = 0$$

$$y = -\frac{1}{2}, \frac{-7}{3}, \text{ no relation can be established}$$

S66. Ans.(a)

Sol.

5x : 6x, Let B investment was used for y months

$$8 \times 5x : 6x \times y = 5 : 9$$

$$\frac{40x}{6xy} = \frac{5}{9}$$

$$y = 12$$

S67. Ans.(a)

Sol.

$$P = \frac{{}^3C_1 \times {}^5C_1}{{}^{12}C_2} = \frac{5}{22}$$

S68. Ans.(e)

Sol.

Let the sum be 'x' Rs.

$$\frac{x \times 8 \times 2}{100} + \frac{x \times 10 \times 3}{100} + \frac{x \times 6 \times 3}{100} = 12800$$

$$\frac{64x}{100} = 12800$$

$$\text{Sum} = 12800 \times \frac{100}{64}$$

$$= 20000 \text{ Rs.}$$

S69. Ans.(d)

Sol.

Let no. of students in class A, B and C be x, y and z

$$\therefore A = 83x$$

$$B = 76y$$

$$C = 85z$$

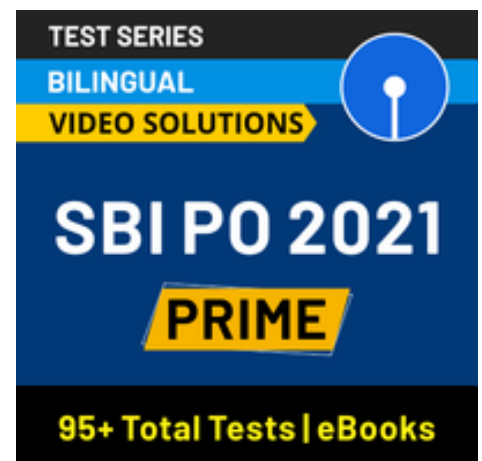
$$\text{Now, } A + B = 79x + 79y$$

$$B + C = 81(y + z) = 81y + 81z$$

$$\therefore 83x + 76y = 79x + 79y$$

$$4x = 3y$$

$$\frac{x}{y} = \frac{3}{4}$$



$$\text{And, } 76y + 85z = 81y + 81z$$

$$5y = 4z$$

$$\frac{y}{z} = \frac{4}{5}$$

$$\therefore x : y : z = 3 : 4 : 5$$

$$\therefore \text{Required average} = \frac{83 \times 3 + 76 \times 4 + 85 \times 5}{12}$$

$$= \frac{249 + 304 + 425}{12}$$

$$= \frac{978}{12}$$

$$= 81.5$$

S70. Ans.(e)

Sol.

$$\text{Volume of hemi-sphere} = \frac{2}{3} \times \pi \times (27)^3 \text{ cm}^3$$

$$\text{Volume of cylindrical bottle} = \pi r^2 h = \pi \times (3)^2 \times 9$$

\therefore Required No. of bottles

$$= \frac{\frac{2}{3} \pi \times (27)^3}{\pi \times (3)^2 \times 9} = 2 \times 3 \times 27 = 162 \text{ bottles}$$

S71. Ans.(b)

Sol.

The correct sequence is : **BFACED**

S72. Ans.(e)

Sol.

The correct sequence is : **BFACED**

S73. Ans.(a)

Sol.

The correct sequence is : **BFACED**

S74. Ans.(c)

Sol.

The correct sequence is : **BFACED**

S75. Ans.(d)

Sol.

The correct sequence is : **BFACED**

S76. Ans.(c)

Sol. The reason for author's prediction regarding N11 countries is that the world's economy is so large that the magnitude of growth from these countries will have to be huge to equal the growth of the BRICs.

S77. Ans.(a)

Sol. Refer to the 4th paragraph of the passage, "The tumbling costs of shipping and communication sparked 'globalisation's second unbounding' (the first was the simple ability to provide consumers in one place with goods from another). As longer supply chains infiltrated and connected places with large and fast growing working-age populations, enormous quantities of cheap new labour became accessible."

S78. Ans.(a)

S79. Ans.(b)

S80. Ans.(d)

Sol. It is not mentioned in the passage if rich economies are threatened.

S81. Ans.(a)

Sol. The author is not criticizing advanced economies for their growth handling.

S82. Ans.(c)

Sol. Tumbling has the same meaning as the word reducing

S83. Ans.(b)

Sol. Felicitous means well chosen or suited to the circumstances hence is similar in meaning to Propitious.

S84. Ans.(d)

Sol. Shrunk is opposite to expand.

S85. Ans.(b)

Sol. Tumult means a loud, confused noise, especially one caused by a large mass of people hence tranquility is the word most opposite in meaning.

S86. Ans.(a)

Sol. 'A' is used inappropriately because there is no need of article here. So, it is to be removed.

S87. Ans.(b)

Sol. Replace 'underwent' with 'undergone' as third form of the verb is to be used here with has.

S88. Ans.(e)

Sol. No error correction required.

S89. Ans.(d)


Sol. Replace 'were' with 'was' as subject is singular.

S90. Ans.(c)

Sol. use 'has' in place of 'have'.



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S91. Ans.(a)

Sol. Urbanised' and 'civilised' are the two suitable words here. But, 'Urbanised' gives the right context in the sentence. Hence, (a) is correct usage.

S92. Ans.(e)

Sol. For the first blank, 'develop' and 'exist' are the two words suitable to be used. But, 'exhibits' doesn't fit the second blank as it is not negative in meaning. Hence, (e) is appropriate

S93. Ans.(c)

Sol. 'Participation' itself gives the idea of being 'involved' into an act. Hence, 'involving' fits the second blank. Also, when employees are a part of management then it truly 'motivates' others. Hence, (c) is correct.

S94. Ans.(a)

Sol. 'Rigidity' and 'dogmatism' are the suitable words to be used in the first blank as these are negative words which is required there. But, 'compatibility' is the suitable usage in the second blank which gives the sense of being acceptable.

S95. Ans.(b)

Sol. reduced fits with first blank. Hence, (b) is the correct choice

S96. Ans.(d)

S97. Ans.(a)

S98. Ans.(b)

S99. Ans.(a)

S100. Ans.(b)



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