All India Maha Mock: SBI PO Pre 30-Oct-2021 (Solutions)

S1. Ans.(b)
Sol. Respite means a short period of rest or relief from something difficult or unpleasant.
And, 'in spite' is followed by 'of'. So, only 'despite' can be used to make the given sentence both grammatically correct and contextually meaningful. Hence, the correct answer choice is option (b).

S2. Ans.(a)
Sol. Mitigate means make (something bad) less severe
Assess means evaluate or estimate the nature, ability, or quality of.
Going through the meaning of the given options, it can be clearly seen that only 'spray' can be used to fill the given blank to make a contextually meaningful sentence. So, the correct answer choice is option (a).

S3. Ans.(c)
Sol. Taking hint from the 'customised google maps' it can be clearly seen that 'locations and position' can clearly fit the given blank to make a contextually meaningful sentence. So, the correct answer choice is option (c).

S4. Ans.(a)
Sol. From the given options, only 'workers' can be used to fill the given blank to make a contextually meaningful sentence. Also, remaining options fail to fit the given blank to make a contextually meaningful sentence. So, the correct answer choice is option (a).

S5. Ans.(b)
Sol. From the given options, 'assure' will make the sentence grammatically incorrect and 'battled' fails to provide any valid meaning. So, 'promoted' is the only option that makes the given sentence both grammatically and contextually correct. So, the correct answer choice is option (b).

S6. Ans.(e)
Sol. Evidence in support of the given answer can be found in following statement, *"The social benefits of being able to speak two or more tongues are obvious—you get to know other cultures and thereby expand your social base. But does it also somehow make the mind nimbler, if not more intelligent"* and "*Bialystok found the bilingual Indians were quicker and more accurate than the monolingual Canadians when the keys and colours were mismatched. "*

S7. Ans.(d)
Sol. Reading the lines of second paragraph of the passage it can be deduced that the correct answer is option(d). The sentences of the passage which substantiate this are given below:
"For the better part of the last century, most scientists believed that while it was an advantage for a child to speak two languages, it came at a heavy price. To quote one Danish linguist from that period, "First of all the child hardly learns either of the two languages as perfectly as he would have done had he limited himself to one… Secondly, the brain effort required to master the two languages instead of one certainly diminishes the child's power of learning other things."

S8. Ans.(a)
Sol. Reading the third paragraph of the passage it can be deduced that the correct answer is option(a). The relevant sentences of the mentioned sentences have been quoted below:
"Apparently, it boosts the brain's executive function—an omnibus word used to describe a medley of mental faculties such as problem-solving ability, memory, communication, sustained focus, and multi-tasking. Significantly, studies also show that the bilingual brain is more resilient to dementia and Alzheimer's."

S9. Ans.(e)
Sol. Reading the passage carefully we can see that none of the sentences given above are factually correct hence the correct answer will be option (e).

S10. Ans.(b)
Sol. The given blank can be filled using option (b). The answer can be verified using the paragraph given in the quotations "Bialystok found the bilingual Indians were quicker and more accurate than the monolingual Canadians when the keys and colours were mismatched. The results of this test made him arrive at the conclusion that the constant switching between two languages alters the brain's architecture in ways that somehow make the executive function more efficient. Nevertheless, sceptics remain."

S11. Ans.(d)
Sol. Among the given words, 'believer' is the antonym of 'sceptic'. Hence, option (d) is the most suitable answer choice.
Sceptic: a person inclined to question or doubt accepted opinions.
Infidel: a person who has no religion or whose religion is not that of the majority.

S12. Ans.(a)
Sol. Among the given words, 'combination' is the synonym of 'medley'. Hence, option (a) is the most suitable answer choice.
Combination: a particular arrangement of different elements.
Medley: a varied mixture of people or things.
Rebate: a partial refund to someone who has paid too much for tax, rent, or a utility.
Calibrate: adjust (experimental results) to take external factors into account or to allow comparison with other data.

S13. Ans.(b)
Sol. Reading the last paragraph of the passage it can be deduced that the correct answer is Option (b). The sentences of the passage which substantiate this are given below:
"Advantageous or not, it is a fact that more than half the world is bilingual today–thanks to the globalization of English, albeit sadly, at the expense of many vulnerable languages."

S14. Ans.(c)
Sol. at the drop of a hat means without hesitation or good reason.
barking up the wrong tree means be pursuing a mistaken or misguided line of thought or course of action.
spic and span means neat, clean, and well looked after.
method to my madness means a purpose in doing something that is seemingly crazy
Going through the meaning of the given options, it can be seen that only (c) can fit the given blank to make a contextually meaningful sentence.

S15. Ans.(a)
Sol. stop crying over spilt milk means don't spend your time worrying about things of that past that cannot be changed
hit the sack means go to bed
cost an arm and a leg means extremely expensive.
have egg on their face means looking stupid
Taking hint from the meaning of the given options, it can be clearly seen that only (a) can be used to fill the given blank.

S16. Ans.(c)
Sol. Porous means not retentive or secure.
Contagious means spread from one person or organism to another.
Suspicious means having or showing a cautious distrust of someone or something.
Taking hint from the meaning of the given options and the sentence which is talking about the actions taken to control the spread of the disease, it can be clearly seen that most appropriate replacement would be 'contagious'. Hence, the correct answer choice is option (c).

S17. Ans.(d)
Sol. Given sentence is talking about the need of coordination with local agencies for implementation of social distancing. So, on the basis of the given information it can be clearly seen that most appropriate answer choice would be 'coordinated'. Hence, the correct answer choice would be option (d).

S18. Ans.(a)
Sol. Mitigation means the action of reducing the severity, seriousness, or painfulness of something.
In the given sentence, author is talking about the use of social distancing in controlling or slowing pandemic influenza. So, on the basis of the given information it can be clearly seen that appropriate replacement would be 'spread'. Hence, the correct answer choice would be option (a).

S19. Ans.(c)
Sol. Placid means calm and peaceful
Taking hint from the sentence which is taking about the reason behind the spread of the disease, i.e. conferences and festivals. So, on the basis of this information it can be clearly seen that most appropriate replacement choice would be 'gatherings'. Hence, the correct answer choice would be option (c).

S20. Ans.(b)
Sol. Mandatory means compulsory.
In the given sentence author is talking about the reason of highest attack rates on children, i.e. due to their close contact. So, from this information it can be seen that most appropriate replacement should be 'crowded'. So, the correct answer choice would be option (b).

S21. Ans.(d)
Sol. Usage of 'fly' in its current position is incorrect because it is making the given sentence grammatically incorrect as can be seen from the usage of 'have been' but interchanging it with 'stuck' will make the given sentence both grammatically and contextually meaningful. So, the correct answer choice is option (d).

S22. Ans.(c)
Sol. 'contain' and 'slew' are incorrect at their current position as they fail to add any valid meaning to the sentence but interchanging them will make the given sentence both grammatically and contextually correct. So, the correct answer choice is option (c).

S23. Ans.(a)
Sol. In the given sentence, 'neighboring' and 'group' are incorrectly used at their respective position because they fail to impart any valid meaning to the sentence. But, interchanging them will make the given sentence both grammatically and contextually correct. So, the correct answer choice is option (a)

S24. Ans.(d)
Sol. 'crowding' and 'attend' in the given sentence are incorrectly used because they are not providing any valid meaning to the sentence, so an interchange is required. So, the correct option choice is option (d).

S25. Ans.(b)
Sol. Deferred means postpone. So, 'deferred' is incorrectly used here, but, interchanging it with 'scheduled' will remove this error. So, the replacement choice is option (b).

S26. Ans.(b)
Sol. Going through the given sentences it can be seen that given paragraph is discussing about the outbreak of novel coronavirus outbreak in Rajasthan's Bhilwara. So, on the basis of this it can be clearly seen that sentence (B) will be the introductory sentence. Going through the chronology, second sentence in the arrangement will be (E) followed by (A). Next in the arrangement will be (D) because it is providing additional information about the person who has died (as mentioned in sentence (A)). And the last sentence in arrangement will be (C). So, the final arrangement will be **BEADC.** So, the correct answer choice is option (b).

S27. Ans.(c)
Sol. Going through the given sentences it can be seen that given paragraph is discussing about the outbreak of novel coronavirus outbreak in Rajasthan's Bhilwara. So, on the basis of this it can be clearly seen that sentence (B) will be the introductory sentence. Going through the chronology, second sentence in the arrangement will be (E) followed by (A). Next in the arrangement will be (D) because it is providing additional information about the person who has died (as mentioned in sentence (A)). And the last sentence in arrangement will be (C). So, the final arrangement will be **BEADC.** So, the correct answer choice is option (c).

S28. Ans.(e)
Sol. Going through the given sentences it can be seen that given paragraph is discussing about the outbreak of novel coronavirus outbreak in Rajasthan's Bhilwara. So, on the basis of this it can be clearly seen that sentence (B) will be the introductory sentence. Going through the chronology, second sentence in the arrangement will be (E) followed by (A). Next in the arrangement will be (D) because it is providing additional information about the person who has died (as mentioned in sentence (A)). And the last sentence in arrangement will be (C). So, the final arrangement will be **BEADC.** So, the correct answer choice is option (e).

S29. Ans.(a)

Sol. Going through the given sentences it can be seen that given paragraph is discussing about the outbreak of novel coronavirus outbreak in Rajasthan's Bhilwara. So, on the basis of this it can be clearly seen that sentence (B) will be the introductory sentence. Going through the chronology, second sentence in the arrangement will be (E) followed by (A). Next in the arrangement will be (D) because it is providing additional information about the person who has died (as mentioned in sentence (A)). And the last sentence in arrangement will be (C). So, the final arrangement will be **BEADC.** So, the correct answer choice is option (a).

S30. Ans.(d)

Sol. Going through the given sentences it can be seen that given paragraph is discussing about the outbreak of novel coronavirus outbreak in Rajasthan's Bhilwara. So, on the basis of this it can be clearly seen that sentence (B) will be the introductory sentence. Going through the chronology, second sentence in the arrangement will be (E) followed by (A). Next in the arrangement will be (D) because it is providing additional information about the person who has died (as mentioned in sentence (A)). And the last sentence in arrangement will be (C). So, the final arrangement will be **BEADC.** So, the correct answer choice is option (d).

S31. Ans.(c)

Sol.

Male employees who are promoted in SBI = $(800 + 700) \times \frac{40}{100} \times \frac{2}{5} = 240$

Male employees who are promoted in UBI = $240 \times \frac{200}{100} = 480$

Female employees who are not promoted in SBI = $700 - \left(\left((800 + 700) \times \frac{40}{100}\right) - 240\right)$

$= 340$

Female employees who are not promoted in UBI = $200 - \left(\left((520 + 200) \times \frac{80}{100}\right) - 480\right)$

$= 104$

Required Sum = 340 + 104= 444

S32. Ans.(a)

Sol.

Total promoted employee from PNB & BOB together

$= (680 + 840) \times \frac{60}{100} + (480 + 720) \times \frac{50}{100}$

$= 912 + 600$

$= 1512$

Average number of male employees from SBI & BOB = $\frac{800+480}{2} = 640$

Required difference = 1512 – 640 = 872

S33. Ans.(d)

Sol.

Total employee promoted from UCO = $(400 + 600) \times \frac{80}{100} = 800$

Total employee promoted from SBI = $(800 + 700) \times \frac{40}{100} = 600$

Required percentage = $\frac{800-600}{600} \times 100 = 33\frac{1}{3}\%$

S34. Ans.(c)

Sol.

Required difference = $(680 + 840) \times \frac{60}{100} \times \frac{(9-7)}{(9+7)} = 114$

S35. Ans.(b)

Sol.

Ratio of total male employee to female employee promoted from UCO = 3 : 5

Total female employee promoted from UCO = $(400 + 600) \times \frac{80}{100} \times \frac{5}{8} = 500$

Total employee promoted from BOB = $(480 + 720) \times \frac{50}{100} = 600$

Required percentage = $\frac{600}{500} \times 100 = 120\%$

S36. Ans.(d)

Sol.

Let A invested his capital for T months

ATQ –

$\frac{2000 \times T}{2400 \times 12} = \frac{(2600-1600)}{1600}$

T = 9

S37. Ans.(d)

Sol.

Let total initial mixture = 8q liters

So, quantity of milk and water in the initial mixture be

'5q liters'& '3q liters' respectively.

ATQ,

$\frac{5q-80\times\frac{5}{8}}{3q-80\times\frac{3}{8}+8} = \frac{3}{2}$

$\frac{5q-50}{3q-22} = \frac{3}{2}$

10q – 100 = 9q – 66

q = 34

Required quantity = 5q + 3q = 8 × 34 = 272 liters

S38. Ans.(e)

Sol.

Let speed of train A = 4s m/sec

So, speed of B = 5s m/sec

∴ Length of train A = 4s × 12 = 48s m

Length of train B = 5s × 8 = 40s m

ATQ,

$\frac{48s+480}{4s} = 36$

$\Rightarrow s = 5$

∴ Required time = $\frac{200+480}{25}$ = 27.2 sec

S39. Ans.(a)

Sol.

Let efficiency of tap P & tap Q be x & y respectively

In first condition –

Capacity of tank = $4x + 18y$ ...(i)

In second condition –

Total capacity of tank = $6x + 12y$ ...(ii)

From (i) & (ii)

$4x + 18y = 6x + 12y$

$x = 3y$

So, total capacity of tank= $4(3y) + 18y = 30y$

Tap P, alone can fill the tank = $\frac{30y}{3y}$ = 10 hours

S40. Ans.(c)

Sol.

Let the cost price of jeans be Rs. A

ATQ

$1680 - A = \frac{200}{100} \times (A - 960)$

$1680 - A = 2A - 1920$

$3A = 1680 + 1920$

A = 1200 Rs.

Required selling price = $1200 \times \frac{3}{2} = 1800\ Rs.$

S41. Ans.(b)

Sol.

Principle = 4800 Rs.

Interest earned with X% in two year at CI

$= X + X + \frac{X \times X}{100} = \left(2X + \frac{X^2}{100}\right)\%$

Principle = 2400

Interest earned with 2X% in two year at CI

$= 2X + 2X + \frac{4X^2}{100}$

$= \left(4X + \frac{4X^2}{100}\right)\%$

ATQ,

$24 \times \left(4X + \frac{4X^2}{100}\right) - 48 \times \left(2X + \frac{X^2}{100}\right) = 48$

$2X + \frac{2X^2}{100} - 2X - \frac{X^2}{100} = 1$

$\frac{X^2}{100} = 1$

$X^2 = 100$

X = 10

1.5X = 1.5 × 10 = 15

S42. Ans.(b)

Sol.

Let side of square is a cm and length of rectangle is $3a$ cm

ATQ—

$2(3a + 24) - 4a = 72$

$6a - 4a = 72 - 48$

$a = 12$ cm

Required sum = Area of square + Area of rectangle

$= (12)^2 + (36 \times 24)$

= 144 + 864

= 1008 cm^2

S43. Ans.(b)

Sol.

Let the present age of Shivam and Prashant be x years and y years respectively.

ATQ,

$x + y = 47$ ...(i)

And, $x + 6 = y - 5 + 4$

$y - x = 7$ ...(ii)

On solving (i) & (ii):

$y = 27, x = 20$

Required % = $\frac{27-20}{20} \times 100$

= 35%

S44. Ans.(e)

Sol.

Rohit alone can complete the work in = $280 \times \frac{3}{4}$ = 210 days

Total work = 2520 units (L.C.M. of 210, 280 & 180)

Efficiency of Anurag = $\frac{2520}{280} = 9$ units/day

Efficiency of Rohit = $\frac{2520}{210} = 12$ units/day

Efficiency of Veer = $\frac{2520}{180} - 9 = 5$ units/day

Total one day work of Anurag, Rohit & Veer together

= (9 + 12 + 5) = 26 units/day

Required time = $\frac{2520}{26} = 96\frac{12}{13} days$

S45. Ans.(b)

Sol.

Let four numbers are a, b, c, d

ATQ,

$a + b + c + d = 256$ ...(i)

And,

$a + 3 = 3b = c - 3 = \frac{d}{3}$ ...(ii)

By solving (i) & (ii)

$a = 45, b = 16, c = 51, d = 144$

Required difference = 51 − 16 = 35

S46. Ans.(d)

Sol.

Pattern of series –

$420 \times 5 - 5 = 2095$

$2095 \times 4 - 4 = 8376$

$8376 \times 3 - 3 = 25125$

$? = 25125 \times 2 - 2 = \mathbf{50248}$

$50248 \times 1 - 1 = 50247$

S47. Ans.(c)

Sol.

Pattern of series –

$130 + 25^2 = 755$

$755 + 20^2 = 1155$

$1155 + 15^2 = 1380$

$1380 + 10^2 = 1480$

$? = 1480 + 5^2 = \mathbf{1505}$

S48. Ans.(a)

Sol.

Pattern of series –

$16 \times 0.5 + 2 = 10$

$10 \times 1 + 2 = 12$

$12 \times 1.5 + 2 = 20$

$? = 20 \times 2 + 2 = \mathbf{42}$

$42 \times 2.5 + 2 = 107$

S49. Ans.(c)

Sol.

$25 + (2 \times 1) = 27$

$? = 27 + (2 \times 2) = \mathbf{31}$

$31 + (2 \times 4) = 39$

$39 + (2 \times 8) = 55$

$55 + (2 \times 16) = 87$

S50. Ans.(b)

Sol.

$? = 26 + (11^2 - 1) = \mathbf{146}$
$146 + (9^2 - 1) = 226$
$226 + (7^2 - 1) = 274$
$274 + (5^2 - 1) = 298$
$298 + (3^2 - 1) = 306$

S51. Ans.(c)

Sol.

Let total number of selected employees from UP, Odisha and West Bengal each be 100x
Required ratio
Female (UP: Odisha: West Bengal) = (55): (60): (65)
= 11 : 12: 13

S52. Ans.(d)

Sol.

Let female employees selected from MP be 100x
So, female employees selected from UP = $100x \times \frac{11}{8} = \frac{1100x}{8}$

Male employees from UP = $\frac{\frac{1100}{8}x}{55} \times 45 = \frac{225x}{2}$

Male employees from MP = $\frac{100x}{64} \times 36 = \frac{225}{4}x$

Required percentage = $\frac{\frac{225x}{2} - \frac{225}{4}x}{\frac{225x}{4}} \times 100$

= 100%

S53. Ans.(b)

Sol.

Male employees selected from Bihar = $\frac{50}{100} \times 42 = 21$

Male employees selected from West Bengal = $\frac{21}{150} \times 100 = 14$

female employees selected from West Bengal = $\frac{14}{35} \times 65 = 26$

S54. Ans.(e)

Sol.

Required difference=$\frac{26}{65} \times 35 - \frac{16}{64} \times 36$
= 14 −9
= 5

S55. Ans.(a)

Sol.

Let total employees selected from Odisha and West Bengal be x and y respectively.

So,

40% of x − 35% of y = 0

$\frac{x}{y} = \frac{7}{8}$

Required ratio = $\frac{8\times65}{7\times60}$ = 26 : 21

S56. Ans.(d)

Sol.

Let total number of Vanilla to Strawberry sold by Amul be 8x and 9x respectively

And, total number of Vanilla to Strawberry sold by Sudha be 5y and 7y respectively

Given, Total number of ice cream sold by Walnut = 136

So, total Vanilla sold by Walnut = $\frac{136}{17} \times 9 = 72$

And, total $strawberry$ sold by Walnut = $\frac{136}{17} \times 8 = 64$

Total ice creams sold by Amul and Sudha parlor = 426-136=290

ATQ –

$5y \times \frac{160}{100} = 8y$

x : y = 1 : 1

So, (8x + 9x + 5x + 7x) = 290

x = 10

Parlors	Vanilla	Strawberry
Amul	80	90
Sudha	50	70
Walnut	72	64

Required total amount = $50 \times 300 + 70 \times 250 = Rs.32500$

S57. Ans.(c)

Sol.

Let total number of Vanilla to Strawberry sold by Amul be 8x and 9x respectively

And, total number of Vanilla to Strawberry sold by Sudha be 5y and 7y respectively

Given, Total number of ice cream sold by Walnut = 136

So, total Vanilla sold by Walnut = $\frac{136}{17} \times 9 = 72$

And, total $strawberry$ sold by Walnut = $\frac{136}{17} \times 8 = 64$

Total ice creams sold by Amul and Sudha parlor = 426-136=290

ATQ –

$5y \times \frac{160}{100} = 8y$

x : y = 1 : 1

So, (8x + 9x + 5x + 7x) = 290

x = 10

Parlors	Vanilla	Strawberry
Amul	80	90
Sudha	50	70
Walnut	72	64

Required ratio = (80 +72) : (70 + 64) = 76:67

S58. Ans.(d)

Sol.

Let total number of Vanilla to Strawberry sold by Amul be 8x and 9x respectively

And, total number of Vanilla to Strawberry sold by Sudha be 5y and 7y respectively

Given, Total number of ice cream sold by Walnut = 136

So, total Vanilla sold by Walnut = $\frac{136}{17} \times 9 = 72$

And, total *strawberry* sold by Walnut = $\frac{136}{17} \times 8 = 64$

Total ice creams sold by Amul and Sudha parlor = 426-136=290

ATQ –

$5y \times \frac{160}{100} = 8y$

x : y = 1 : 1

So, (8x + 9x + 5x + 7x) = 290

x = 10

Parlors	Vanilla	Strawberry
Amul	80	90
Sudha	50	70
Walnut	72	64

Required average = $\frac{90+70}{2} = 80$

S59. Ans.(a)

Sol.

Let total number of Vanilla to Strawberry sold by Amul be 8x and 9x respectively

And, total number of Vanilla to Strawberry sold by Sudha be 5y and 7y respectively

Given, Total number of ice cream sold by Walnut = 136

So, total Vanilla sold by Walnut = $\frac{136}{17} \times 9 = 72$

And, total *strawberry* sold by Walnut = $\frac{136}{17} \times 8 = 64$

Total ice creams sold by Amul and Sudha parlor = 426-136=290

ATQ –

$5y \times \frac{160}{100} = 8y$

x : y = 1 : 1

So, (8x + 9x + 5x + 7x) = 290

x = 10

Parlors	Vanilla	Strawberry
Amul	80	90
Sudha	50	70
Walnut	72	64

Total Vanilla sold by Amul and Walnut = 72+80 = 152

Total Strawberry sold by Sudha & Walnut = 70+64 = 134

So, Required percentage = $\frac{152}{134} \times 100 = 113.43 \approx 113\%$

S60. Ans.(d)

Sol.

Let total number of Vanilla to Strawberry sold by Amul be 8x and 9x respectively

And, total number of Vanilla to Strawberry sold by Sudha be 5y and 7y respectively

Given, Total number of ice cream sold by Walnut = 136

So, total Vanilla sold by Walnut = $\frac{136}{17} \times 9 = 72$

And, total *strawberry* sold by Walnut = $\frac{136}{17} \times 8 = 64$

Total ice creams sold by Amul and Sudha parlor = 426-136=290

ATQ –

$5y \times \frac{160}{100} = 8y$

x : y = 1 : 1

So, (8x + 9x + 5x + 7x) = 290

x = 10

Parlors	Vanilla	Strawberry
Amul	80	90
Sudha	50	70
Walnut	72	64

Required sum = $50 \times \frac{120}{100} + 80 \times \frac{180}{100}$

= 60 + 144 = 204

S61. Ans.(e)

Sol.

I. $x^2 + 4x - 3x - 12 = 0$

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

$x = 3, -4$

II. $y^2 + 5y - 3y - 15 = 0$

$(y + 5)(y - 3) = 0$

$y = -5, 3$

⇒ no relation can be established

S62. Ans.(b)

Sol.

I. $6x^2 - 2x - 3x + 1 = 0$

$(2x - 1)(3x - 1) = 0$

$x = \frac{1}{2}, \frac{1}{3}$

II. $3y^2 + 9y - y - 3 = 0$

$3y(y + 3) - 1(y + 3) = 0$

$(3y - 1)(y + 3) = 0$

$y = -3, \frac{1}{3}$

⇒ $x \geq y$

S63. Ans.(d)

Sol.

I. $12x^2 - 3x - 4x + 1 = 0$

$(3x - 1)(4x - 1) = 0$

$x = \frac{1}{3}, \frac{1}{4}$

II. $6y^2 - 2y - 3y + 1 = 0$

$(2y - 1)(3y - 1) = 0$

$y = \frac{1}{2}, \frac{1}{3}$

$\Rightarrow y \geq x$

S64. Ans.(d)

Sol.

I. $x^2 + 2x + 5x + 10 = 0$

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

$x = -2, -5$

II. $2y^2 + 4y + y + 2 = 0$

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

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

$\Rightarrow x \leq y$

S65. Ans.(e)

Sol.

I. $x^2 - 5x + 3x - 15 = 0$

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

$x = 5, -3$

II. $y^2 + 4y + y + 4 = 0$

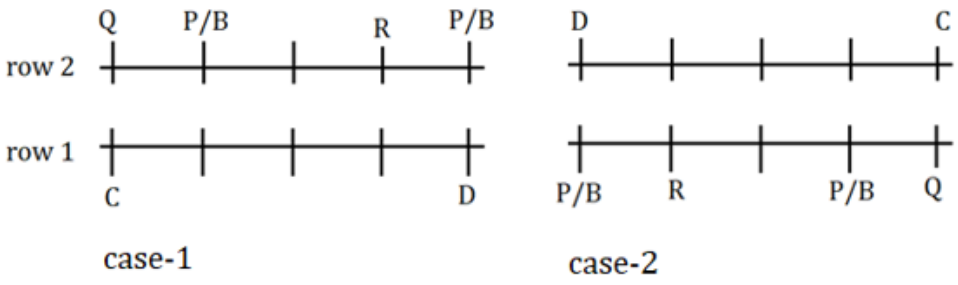
$(y + 4)(y + 1) = 0$

$y = -1, -4$

$\Rightarrow$ No relation can be established between x & y.

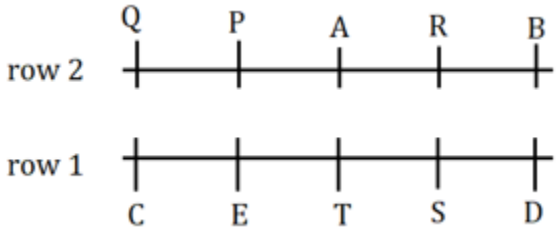
S66. Ans.(b)

Sol. From the given statements, Q who sits at one of the extreme ends sits third to the right of R. Only two persons sit between C and the one who faces R. Only two persons sit between P and B. D faces the one who sits immediate left of R. So we have two possible cases i.e. case-1 and case-2:



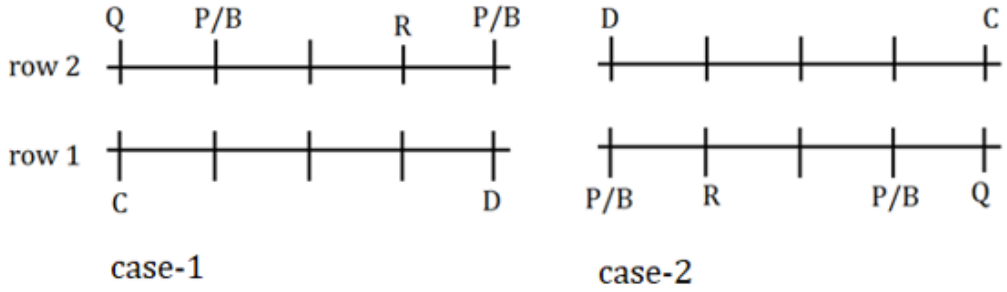
Adda247 | No. 1 APP for Banking & SSC Preparation
Website: bankersadda.com | sscadda.com | adda247.com | **Email:** blogger@adda247.com

T sits second to the left of D. A who sits immediate left of P faces the one who sits immediate left of S. E is one of the persons who sit in row 1. So case-2 is eliminated. Hence the final arrangement is:

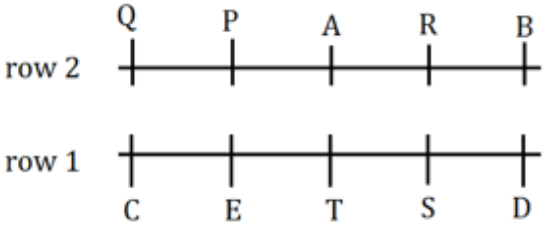


S67. Ans.(b)

Sol. From the given statements, Q who sits at one of the extreme ends sits third to the right of R. Only two persons sit between C and the one who faces R. Only two persons sit between P and B. D faces the one who sits immediate left of R. So we have two possible cases i.e. case-1 and case-2:

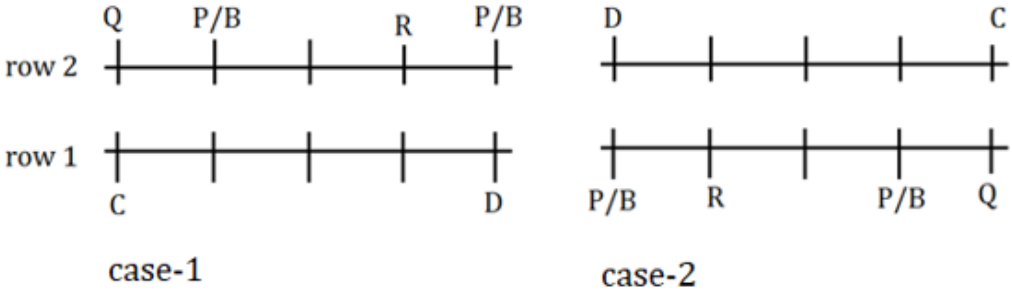


T sits second to the left of D. A who sits immediate left of P faces the one who sits immediate left of S. E is one of the persons who sit in row 1. So case-2 is eliminated. Hence the final arrangement is:



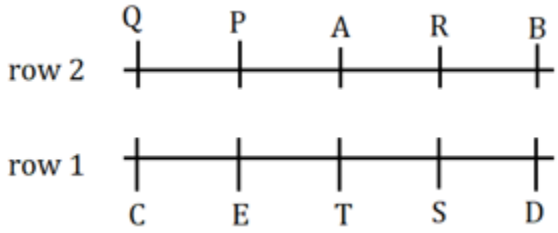
S68. Ans.(c)

Sol. From the given statements, Q who sits at one of the extreme ends sits third to the right of R. Only two persons sit between C and the one who faces R. Only two persons sit between P and B. D faces the one who sits immediate left of R. So we have two possible cases i.e. case-1 and case-2:



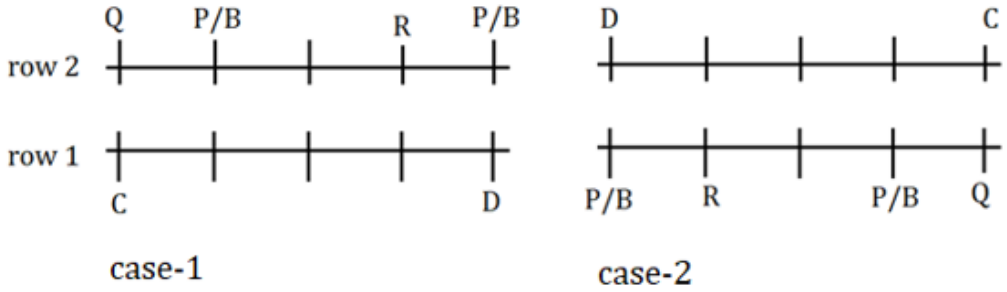
Adda247 | No. 1 APP for Banking & SSC Preparation
Website: bankersadda.com | sscadda.com | adda247.com | **Email:** blogger@adda247.com

T sits second to the left of D. A who sits immediate left of P faces the one who sits immediate left of S. E is one of the persons who sit in row 1. So case-2 is eliminated. Hence the final arrangement is:

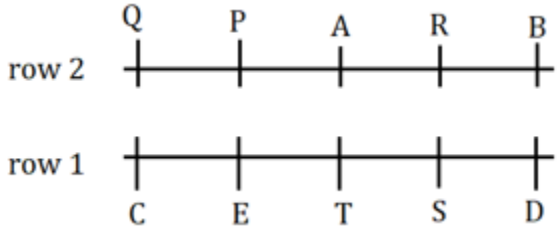


S69. Ans.(a)

Sol. From the given statements, Q who sits at one of the extreme ends sits third to the right of R. Only two persons sit between C and the one who faces R. Only two persons sit between P and B. D faces the one who sits immediate left of R. So we have two possible cases i.e. case-1 and case-2:

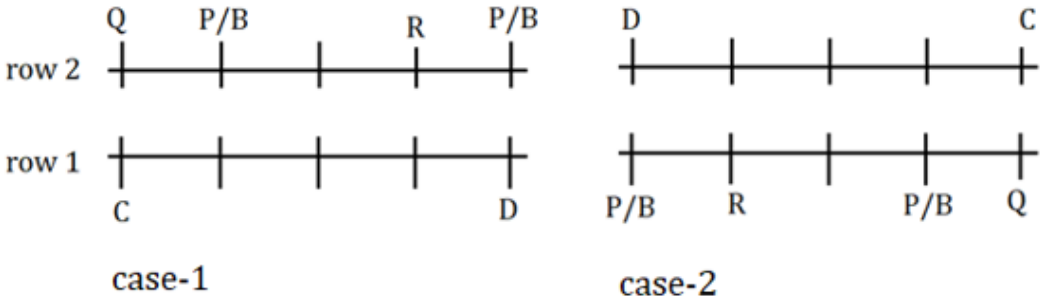


T sits second to the left of D. A who sits immediate left of P faces the one who sits immediate left of S. E is one of the persons who sit in row 1. So case-2 is eliminated. Hence the final arrangement is:



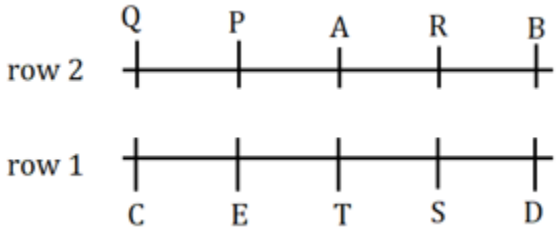
S70. Ans.(d)

Sol. From the given statements, Q who sits at one of the extreme ends sits third to the right of R. Only two persons sit between C and the one who faces R. Only two persons sit between P and B. D faces the one who sits immediate left of R. So we have two possible cases i.e. case-1 and case-2:



Adda247 | No. 1 APP for Banking & SSC Preparation
Website: bankersadda.com | sscadda.com | adda247.com | **Email:** blogger@adda247.com

T sits second to the left of D. A who sits immediate left of P faces the one who sits immediate left of S. E is one of the persons who sit in row 1. So case-2 is eliminated. Hence the final arrangement is:



S71. Ans.(c)
Sol. Z

S72. Ans.(e)
Sol. (7H, 2K, 5V, 8L, 0Z, 9W, 3P, 6G)

S73. Ans.(e)
Sol. (O7, A4)

S74. Ans.(a)
Sol. B

S75. Ans.(b)

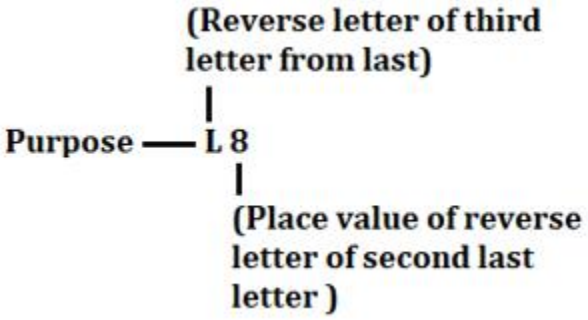
S76. Ans.(c)
Sol.

Purpose — L 8
- L 8: (Reverse letter of third letter from last)
- L 8: (Place value of reverse letter of second last letter)

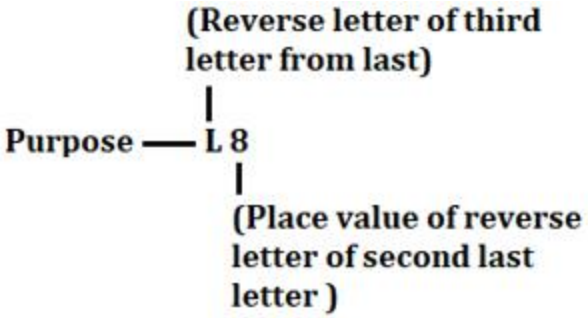
S77. Ans.(d)
Sol.

Purpose — L 8
- L 8: (Reverse letter of third letter from last)
- L 8: (Place value of reverse letter of second last letter)

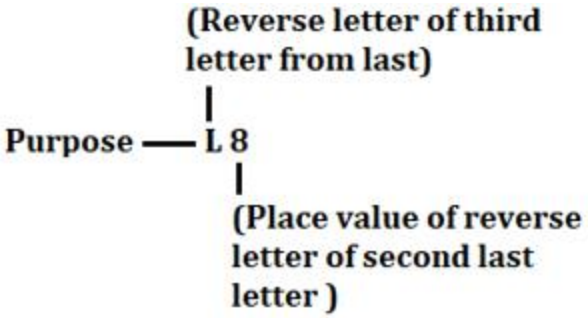
S78. Ans.(b)
Sol.



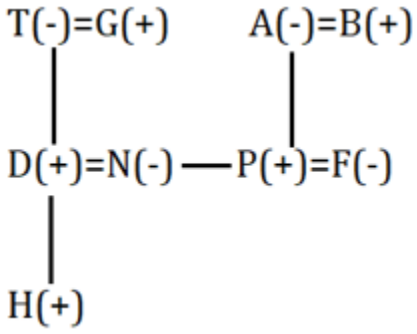
S79. Ans.(b)
Sol.



S80. Ans.(d)
Sol.

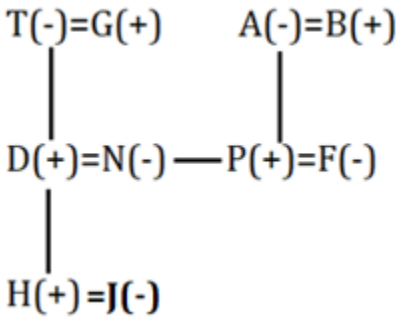


S81. Ans.(a)
Sol.

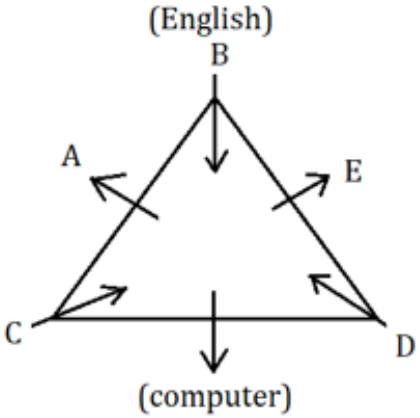


Adda247 | No. 1 APP for Banking & SSC Preparation
Website: bankersadda.com | sscadda.com | adda247.com | **Email:** blogger@adda247.com

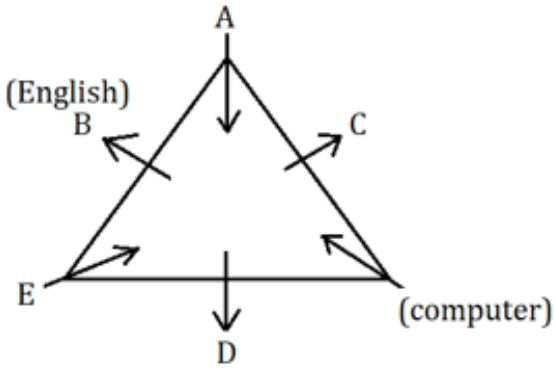
S82. Ans.(a)
Sol.



S83. Ans.(b)
Sol. From the given statements, A sits second to the right of the one who likes computer. So we have two possible cases i.e. case-1 and case2.Only one person sit between E and the one who likes computer. E sits immediate right of D and immediate left of B. C sits second to the right of B who likes English.

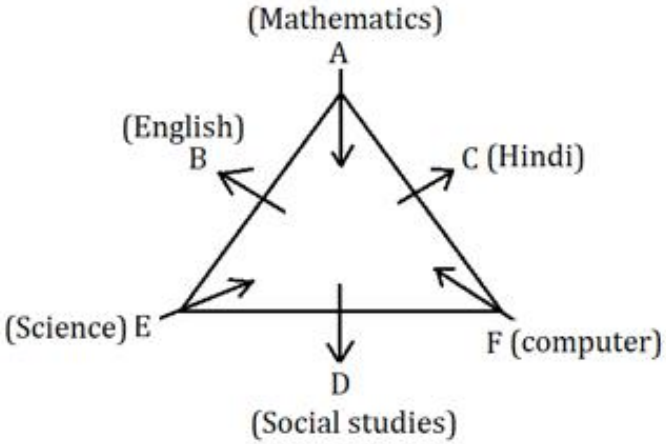


case-1



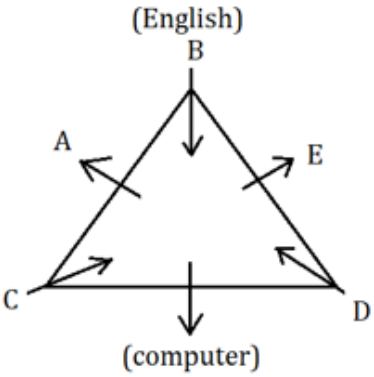
case-2

F sits second to the right of the one who likes Science. The one who likes Hindi sits immediate left of the one who likes Mathematics. A does not like Hindi. The one who likes Social studies sits at the middle side of the table. So case-1 is eliminated. Hence the final arrangement is:

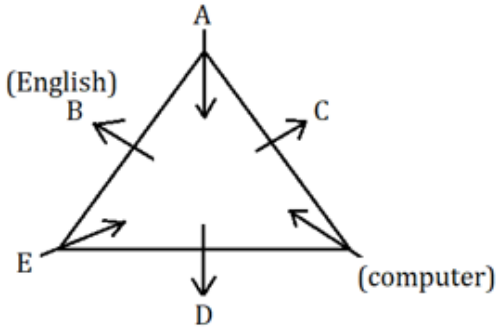


S84. Ans.(d)

Sol. From the given statements, A sits second to the right of the one who likes computer. So we have two possible cases i.e. case-1 and case2.Only one person sit between E and the one who likes computer. E sits immediate right of D and immediate left of B. C sits second to the right of B who likes English.

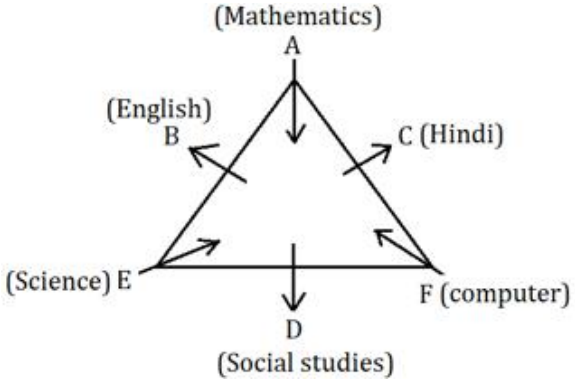


case-1



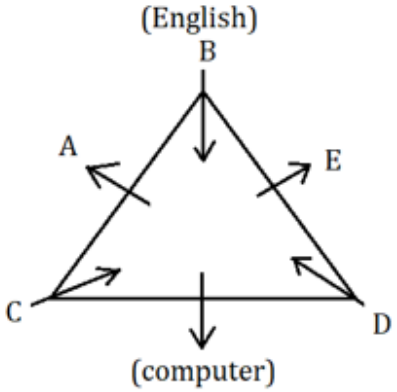
case-2

F sits second to the right of the one who likes Science. The one who likes Hindi sits immediate left of the one who likes Mathematics. A does not like Hindi. The one who likes Social studies sits at the middle side of the table. So case-1 is eliminated. Hence the final arrangement is:

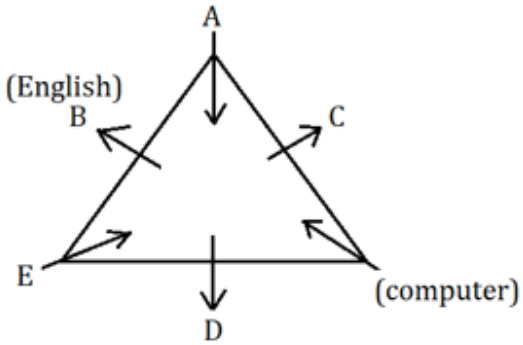


S85. Ans.(e)

Sol. From the given statements, A sits second to the right of the one who likes computer. So we have two possible cases i.e. case-1 and case2.Only one person sit between E and the one who likes computer. E sits immediate right of D and immediate left of B. C sits second to the right of B who likes English.

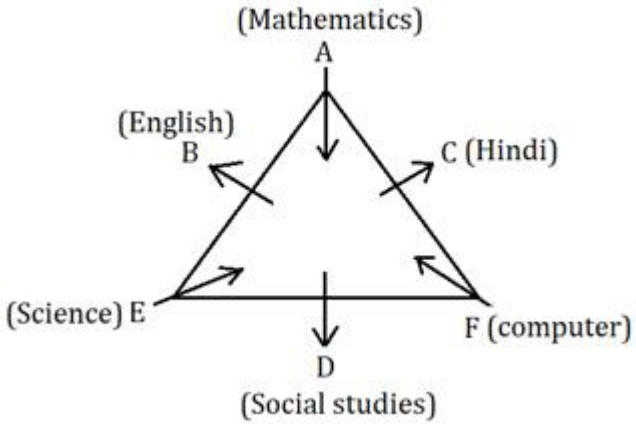


case-1



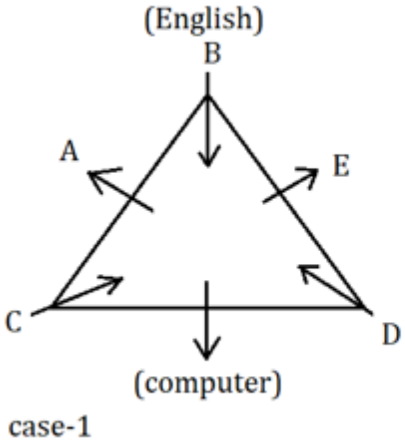
case-2

F sits second to the right of the one who likes Science. The one who likes Hindi sits immediate left of the one who likes Mathematics. A does not like Hindi. The one who likes Social studies sits at the middle side of the table. So case-1 is eliminated. Hence the final arrangement is:

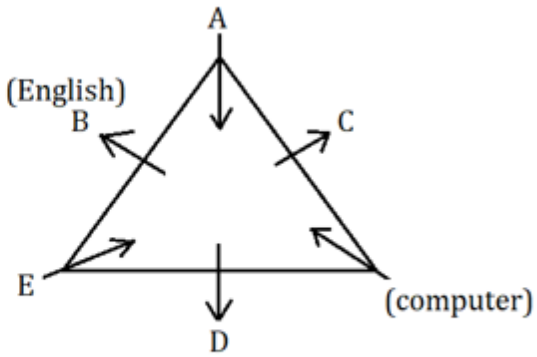


S86. Ans.(b)

Sol. From the given statements, A sits second to the right of the one who likes computer. So we have two possible cases i.e. case-1 and case2.Only one person sit between E and the one who likes computer. E sits immediate right of D and immediate left of B. C sits second to the right of B who likes English.

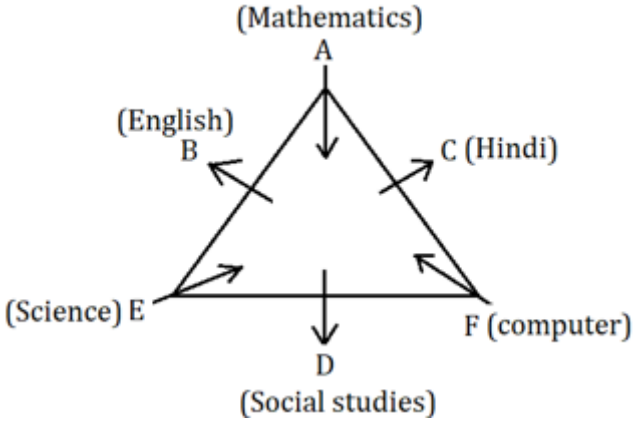


case-1



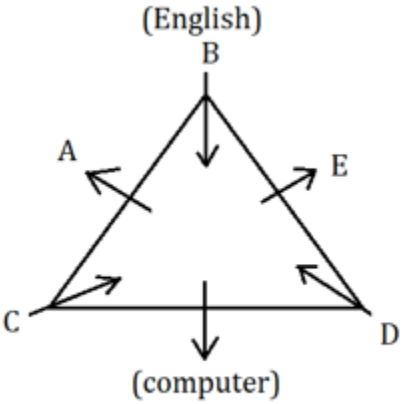
case-2

F sits second to the right of the one who likes Science. The one who likes Hindi sits immediate left of the one who likes Mathematics. A does not like Hindi. The one who likes Social studies sits at the middle side of the table. So case-1 is eliminated. Hence the final arrangement is:

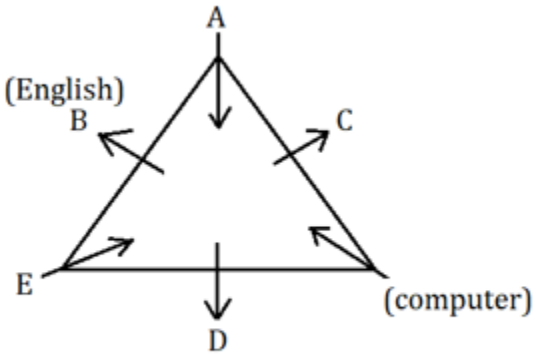


S87. Ans.(d)

Sol. From the given statements, A sits second to the right of the one who likes computer. So we have two possible cases i.e. case-1 and case2.Only one person sit between E and the one who likes computer. E sits immediate right of D and immediate left of B. C sits second to the right of B who likes English.

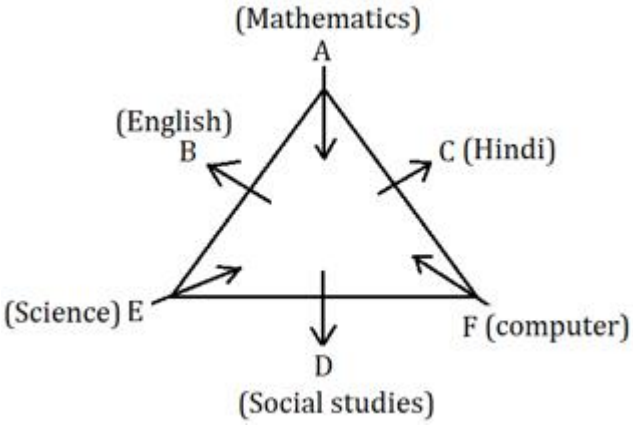


case-1



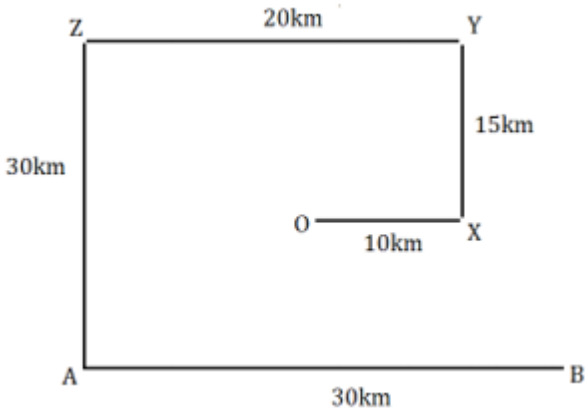
case-2

F sits second to the right of the one who likes Science. The one who likes Hindi sits immediate left of the one who likes Mathematics. A does not like Hindi. The one who likes Social studies sits at the middle side of the table. So case-1 is eliminated. Hence the final arrangement is:

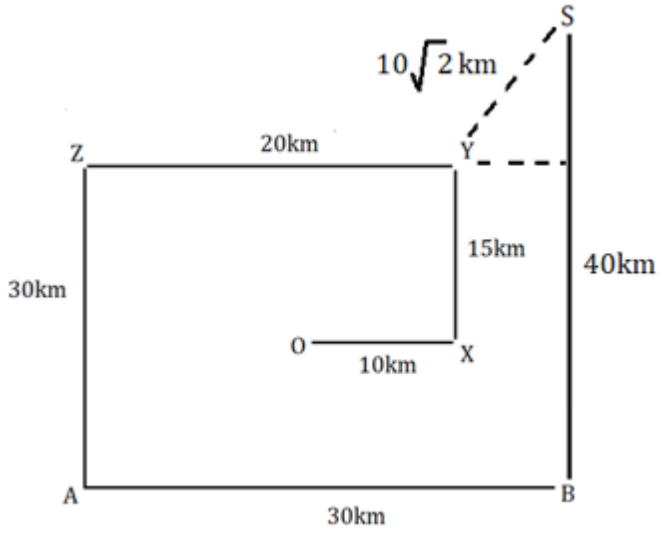


S88. Ans.(c)

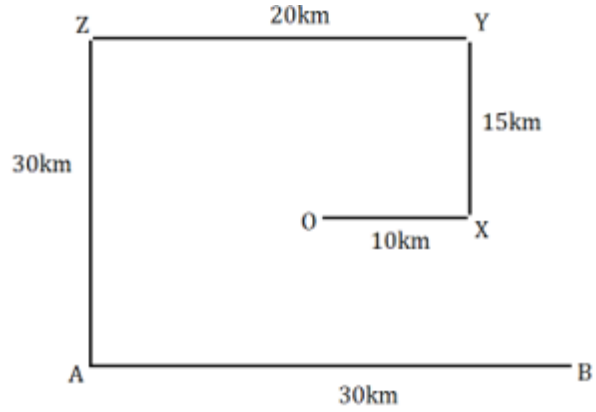
Sol.



S89. Ans.(a)
Sol.



S90. Ans.(c)
Sol.



S91. Ans.(b)
Sol.
I: X≤C(False)
II: Q>X (True)

S92. Ans.(c)
Sol.
I: B>S (False)
II: S=B (False)

S93. Ans.(e)
Sol.
I: R>D(True)
II: E<Q(True)

S94. Ans.(a)

Sol. From the given statements, Box A is placed above box B and more than five boxes are placed between them. Two boxes are placed between box A and box S. Box C placed just above box F. Box T is placed below box S and above box C. One box is placed between box S and box K. Here we get three possibilities i.e. Case-1, Case-2, and Case-2A.

Case-1	Case-2	Case-2A
Box	Box	Box
A	A	A
K		K
S	S	S
T	T	T/
C	K	T/C
F	C	C/F
B	F	F
	B	B

Now, Box P is placed above box Q. Box P is not placed just above or below box K. Here case-2A ruled out. More than two boxes are placed between Box P and box T. Here case-2 ruled out So, the final arrangement will be:

Box
P
A
K
Q
S
T
C
F
B

S95. Ans.(d)

Sol. From the given statements, Box A is placed above box B and more than five boxes are placed between them. Two boxes are placed between box A and box S. Box C placed just above box F. Box T is placed below box S and above box C. One box is placed between box S and box K. Here we get three possibilities i.e. Case-1, Case-2, and Case-2A.

Case-1	Case-2	Case-2A
Box	Box	Box
A	A	A
K		K
S	S	S
T	T	T/
C	K	T/C
F	C	C/F
B	F	F
	B	B

Now, Box P is placed above box Q. Box P is not placed just above or below box K. Here case-2A ruled out. More than two boxes are placed between Box P and box T. Here case-2 ruled out So, the final arrangement will be:

Box
P
A
K
Q
S
T
C
F
B

S96. Ans.(b)

Sol. From the given statements, Box A is placed above box B and more than five boxes are placed between them. Two boxes are placed between box A and box S. Box C placed just above box F. Box T is placed below box S and above box C. One box is placed between box S and box K. Here we get three possibilities i.e. Case-1, Case-2, and Case-2A.

Case-1	Case-2	Case-2A
Box	Box	Box
A	A	A
K		K
S	S	S
T	T	T/
C	K	T/C
F	C	C/F
B	F	F
	B	B

Now, Box P is placed above box Q. Box P is not placed just above or below box K. Here case-2A ruled out. More than two boxes are placed between Box P and box T. Here case-2 ruled out So, the final arrangement will be:

Box
P
A
K
Q
S
T
C
F
B

S97. Ans.(b)

Sol. From the given statements, Box A is placed above box B and more than five boxes are placed between them. Two boxes are placed between box A and box S. Box C placed just above box F. Box T is placed below box S and above box C. One box is placed between box S and box K. Here we get three possibilities i.e. Case-1, Case-2, and Case-2A.

Case-1	Case-2	Case-2A
Box	Box	Box
A	A	A
K		K
S	S	S
T	T	T/
C	K	T/C
F	C	C/F
B	F	F
	B	B

Now, Box P is placed above box Q. Box P is not placed just above or below box K. Here case-2A ruled out. More than two boxes are placed between Box P and box T. Here case-2 ruled out So, the final arrangement will be:

Box
P
A
K
Q
S
T
C
F
B

S98. Ans.(c)

Sol. From the given statements, Box A is placed above box B and more than five boxes are placed between them. Two boxes are placed between box A and box S. Box C placed just above box F. Box T is placed below box S and above box C. One box is placed between box S and box K. Here we get three possibilities i.e. Case-1, Case-2, and Case-2A.

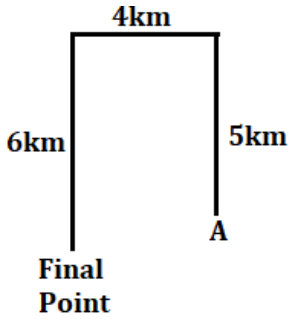
Case-1	Case-2	Case-2A
Box	Box	Box
A	A	A
K		K
S	S	S
T	T	T/
C	K	T/C
F	C	C/F
B	F	F
	B	B

Now, Box P is placed above box Q. Box P is not placed just above or below box K. Here case-2A ruled out. More than two boxes are placed between Box P and box T. Here case-2 ruled out So, the final arrangement will be:

Box
P
A
K
Q
S
T
C
F
B

S99. Ans.(c)

Sol.



S100. Ans.(c)

adda247 PUBLICATIONS

BOOKS

Visit: adda247.com
For any information, mail us at **support.publication@adda247.com**