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S1. Ans.(d)

Sol. G gifted a Watch but did not get Cap and Mobile cover in return. D received a Pen-set in return but did not give Sunglasses and Jacket. H received a Bag in return gift. Neither B nor F gave perfume. E did not get Coffee mug in return gift. E did not gave Shirt nor receive Cap in return gift. H did not gave Sunglasses. B did not get Cap. So we have following conditions-

Person	Gift	Return Gift
B	~~Perfume~~	~~Cap~~
C		
D	~~Sunglasses, Jacket~~	Pen Set
E	~~Shirt~~	~~Coffee mug, Cap~~
F	~~Perfume~~	
G	Watch	~~Cap, Mobile Cover~~
H	~~Sunglasses~~	Bag

Now, the one who gave Perfume get coffee mug in return. The one who gave Shoes got Wrist band in return. The one who received a Pen set did not gave Shirt. The one who gave Sunglasses did not receive Mobile cover or Bag in return. So the final arrangement will be-

Person	Gift	Return Gift
B	Shirt	Mobile Cover
C	Perfume	Coffee mug
D	Photo frame	Pen set
E	Shoes	Wrist band
F	Sunglasses	Cap
G	Watch	Wallet
H	Jacket	Bag

S2. Ans.(b)

Sol. G gifted a Watch but did not get Cap and Mobile cover in return. D received a Pen-set in return but did not give Sunglasses and Jacket. H received a Bag in return gift. Neither B nor F gave perfume. E did not get Coffee mug in return gift. E did not gave Shirt nor receive Cap in return gift. H did not gave Sunglasses. B did not get Cap. So we have following conditions-

Person	Gift	Return Gift
B	~~Perfume~~	~~Cap~~
C		
D	~~Sunglasses, Jacket~~	Pen Set
E	~~Shirt~~	~~Coffee mug, Cap~~
F	~~Perfume~~	
G	Watch	~~Cap, Mobile Cover~~
H	~~Sunglasses~~	Bag

Now, the one who gave Perfume get coffee mug in return. The one who gave Shoes got Wrist band in return. The one who received a Pen set did not gave Shirt. The one who gave Sunglasses did not receive Mobile cover or Bag in return. So the final arrangement will be-

Person	Gift	Return Gift
B	Shirt	Mobile Cover
C	Perfume	Coffee mug
D	Photo frame	Pen set
E	Shoes	Wrist band
F	Sunglasses	Cap
G	Watch	Wallet
H	Jacket	Bag

S3. Ans.(c)
Sol. G gifted a Watch but did not get Cap and Mobile cover in return. D received a Pen-set in return but did not give Sunglasses and Jacket. H received a Bag in return gift. Neither B nor F gave perfume. E did not get Coffee mug in return gift. E did not gave Shirt nor receive Cap in return gift. H did not gave Sunglasses. B did not get Cap. So we have following conditions-

Person	Gift	Return Gift
B	~~Perfume~~	~~Cap~~
C		
D	~~Sunglasses, Jacket~~	Pen Set
E	~~Shirt~~	~~Coffee mug, Cap~~
F	~~Perfume~~	
G	Watch	~~Cap, Mobile Cover~~
H	~~Sunglasses~~	Bag

Now, the one who gave Perfume get coffee mug in return. The one who gave Shoes got Wrist band in return. The one who received a Pen set did not gave Shirt. The one who gave Sunglasses did not receive Mobile cover or Bag in return. So the final arrangement will be-

Person	Gift	Return Gift
B	Shirt	Mobile Cover
C	Perfume	Coffee mug
D	Photo frame	Pen set
E	Shoes	Wrist band
F	Sunglasses	Cap
G	Watch	Wallet
H	Jacket	Bag

S4. Ans.(b)
Sol. G gifted a Watch but did not get Cap and Mobile cover in return. D received a Pen-set in return but did not give Sunglasses and Jacket. H received a Bag in return gift. Neither B nor F gave perfume. E did not get Coffee mug in return gift. E did not gave Shirt nor receive Cap in return gift. H did not gave Sunglasses. B did not get Cap. So we have following conditions-

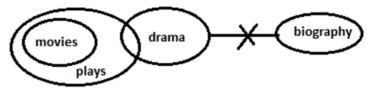| Person	Gift	Return Gift
B	~~Perfume~~	~~Cap~~
C		
D	~~Sunglasses, Jacket~~	Pen Set
E	~~Shirt~~	~~Coffee mug, Cap~~
F	~~Perfume~~	
G	Watch	~~Cap, Mobile Cover~~
H	~~Sunglasses~~	Bag

Now, the one who gave Perfume get coffee mug in return. The one who gave Shoes got Wrist band in return. The one who received a Pen set did not gave Shirt. The one who gave Sunglasses did not receive Mobile cover or Bag in return. So the final arrangement will be-

Person	Gift	Return Gift
B	Shirt	Mobile Cover
C	Perfume	Coffee mug
D	Photo frame	Pen set
E	Shoes	Wrist band
F	Sunglasses	Cap
G	Watch	Wallet
H	Jacket	Bag

S5. Ans.(e)
Sol. G gifted a Watch but did not get Cap and Mobile cover in return. D received a Pen-set in return but did not give Sunglasses and Jacket. H received a Bag in return gift. Neither B nor F gave perfume. E did not get Coffee mug in return gift. E did not gave Shirt nor receive Cap in return gift. H did not gave Sunglasses. B did not get Cap. So we have following conditions-

Person	Gift	Return Gift
B	~~Perfume~~	~~Cap~~
C		
D	~~Sunglasses, Jacket~~	Pen Set
E	~~Shirt~~	~~Coffee mug, Cap~~
F	~~Perfume~~	
G	Watch	~~Cap, Mobile Cover~~
H	~~Sunglasses~~	Bag

Now, the one who gave Perfume get coffee mug in return. The one who gave Shoes got Wrist band in return. The one who received a Pen set did not gave Shirt. The one who gave Sunglasses did not receive Mobile cover or Bag in return. So the final arrangement will be-

Person	Gift	Return Gift
B	Shirt	Mobile Cover
C	Perfume	Coffee mug
D	Photo frame	Pen set
E	Shoes	Wrist band
F	Sunglasses	Cap
G	Watch	Wallet
H	Jacket	Bag

S6. Ans.(a)
Sol.

For-I True, plays which are drama can never be biography. Hence conclusion I follow.
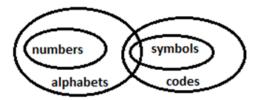For-II False, as there in no direct relation between movies and biography. Hence conclusion II will not follows.

S7. Ans.(a)
Sol.

For-I True, From Venn diagram it is clear that some schools are games.
For-II False, as there is no direct relation between college and games. Hence conclusion II will not hold true.

S8. Ans.(c)
Sol.

For-I Since there is no direct relation between numbers and codes. Therefore, we cannot conclude this.
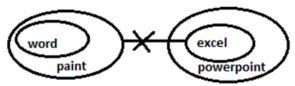For-II Since there is no direct relation between numbers and codes. Therefore, we cannot conclude this.
Since subject and predicate are same and it is a case of 'Some' and 'Some not' therefore "Either or" will follow.

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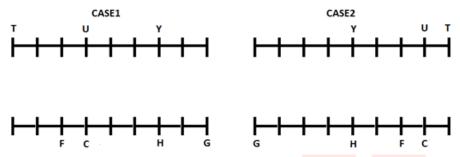
S9. Ans.(d)
Sol.

For-I From Venn diagram it is clear that all word being excel is a possibility will not hold true.
For-II Since there is no direct relation between powerpoint and paint. Therefore, conclusion II will not hold true.
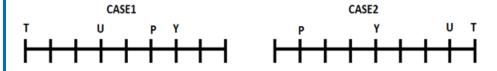
S10. Ans.(c)
Sol.
T sits diagonally opposite to G. Five persons sit between F and G. Either C or H is in immediate right of F. Two persons sit between C and H who does not face T. Two persons sit between U and Y. F faces the one who is immediate right to U. Y does not face C.
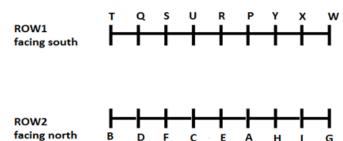
The number of persons sitting between B and E is same as between G and E. I faces the one who sits 2nd left to P. I does not face T nor sits immediate left to F.
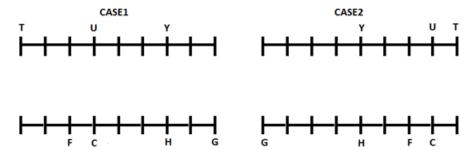
A is left to I, So case2 gets eliminated. X does not face G. X and W sit together but none of them face F. S is one of the immediate neighbor of Q, who faces D.
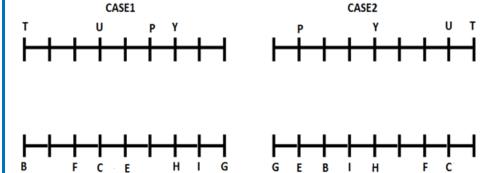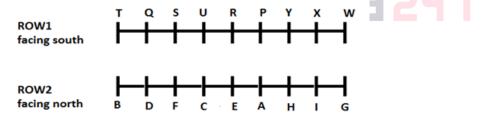
S11. Ans.(a)
Sol. T sits diagonally opposite to G. Five persons sit between F and G. Either C or H is in immediate right of F. Two persons sit between C and H who does not face T. Two persons sit between U and Y. F faces the one who is immediate right to U. Y does not face C.

CASE1

T   U   Y

F   C   H   G

CASE2

          Y   U   T

G   H   F   C

The number of persons sitting between B and E is same as between G and E. I faces the one who sits 2nd left to P.I does not face T nor sits immediate left to F.

CASE1

T   U   P Y

B   F   C E   H I   G

CASE2

P   Y   U   T
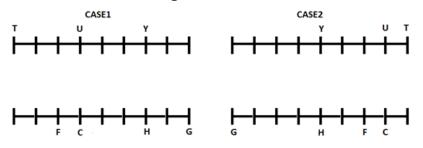
G   E   B   I   H   F   C

A is left to I, So case2 gets eliminated. X does not face G. X and W sit together but none of them face F. S is one of the immediate neighbor of Q, who faces D.
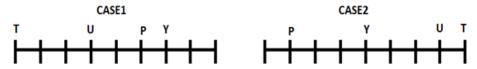
| ROW1 facing south | T | Q | S | U | R | P | Y | X | W |
| ROW2 facing north | B | D | F | C | E | A | H | I | G |

S12. Ans.(a)
Sol. T sits diagonally opposite to G. Five persons sit between F and G. Either C or H is in immediate right of F. Two persons sit between C and H who does not face T. Two persons sit between U and Y. F faces the one who is immediate right to U. Y does not face C.
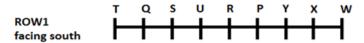
CASE1

T   U   Y

F   C   H   G

CASE2

          Y   U   T

G   H   F   C

The number of persons sitting between B and E is same as between G and E. I faces the one who sits 2nd left to P.I does not face T nor sits immediate left to F.

CASE1

T   U   P   Y

B   F   C   E   H   I   G

CASE2

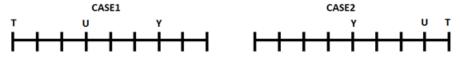P   Y   U   T

G   E   B   I   H   F   C

A is left to I, So case2 gets eliminated. X does not face G. X and W sit together but none of them face F. S is one of the immediate neighbor of Q, who faces D.

ROW1
facing south

T   Q   S   U   R   P   Y   X   W

ROW2
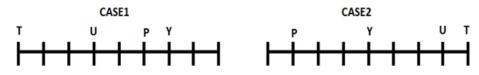facing north

B   D   F   C   E   A   H   I   G

S13. Ans.(d)

Sol. T sits diagonally opposite to G. Five persons sit between F and G. Either C or H is in immediate right of F. Two persons sit between C and H who does not face T. Two persons sit between U and Y. F faces the one who is immediate right to U. Y does not face C.
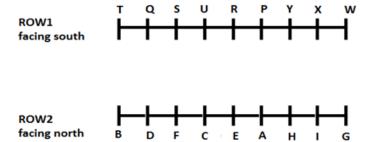
CASE1

T   U   Y

F   C   H   G

CASE2

Y   U   T

G   H   F   C

The number of persons sitting between B and E is same as between G and E. I faces the one who sits 2nd left to P.I does not face T nor sits immediate left to F.

CASE1

T   U   P   Y

B   F   C   E   H   I   G

CASE2

P   Y   U   T
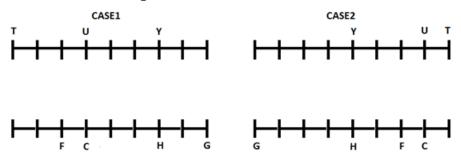
G   E   B   I   H   F   C

A is left to I, So case2 gets eliminated. X does not face G. X and W sit together but none of them face F. S is one of the immediate neighbor of Q, who faces D.

ROW1
facing south
T Q S U R P Y X W

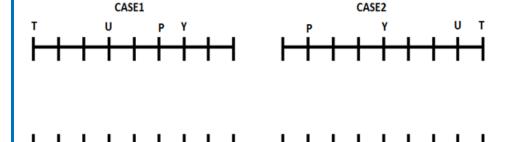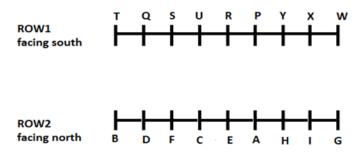ROW2
facing north
B D F C E A H I G

S14. Ans.(e)

Sol. T sits diagonally opposite to G. Five persons sit between F and G. Either C or H is in immediate right of F. Two persons sit between C and H who does not face T. Two persons sit between U and Y. F faces the one who is immediate right to U. Y does not face C.
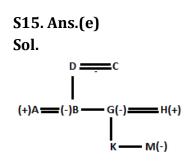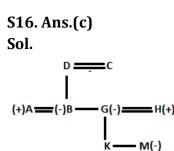
CASE1

T   U   Y

F   C   H   G

CASE2

                Y   U   T

G   H   F   C

The number of persons sitting between B and E is same as between G and E. I faces the one who sits 2nd left to P. I does not face T nor sits immediate left to F.

CASE1

T   U   P Y

B   F   C   E   H I G

CASE2

        P   Y   U   T

        G   E   B   I   H   F   C

A is left to I, So case2 gets eliminated. X does not face G. X and W sit together but none of them face F. S is one of the immediate neighbor of Q, who faces D.
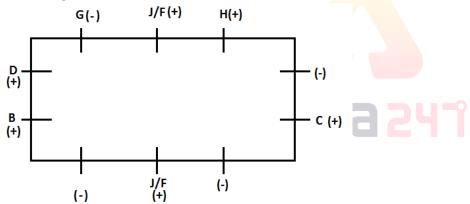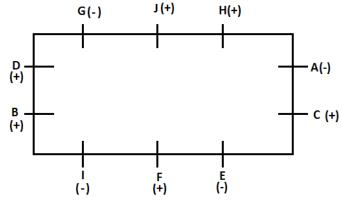
ROW1
facing south
T Q S U R P Y X W

ROW2
facing north
B D F C E A H I G

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S15. Ans.(e)
Sol.

```
          D ═══ C
              |
(+)A ═══ (-)B ── G(-) ═══ H(+)
              |
          K ── M(-)
```

S16. Ans.(c)
Sol.

```
          D ═══ C
              |
(+)A ═══ (-)B ── G(-) ═══ H(+)
              |
          K ── M(-)
```

S17. Ans.(e)
Sol. G sits immediate left to D, who is a male. H is 2nd to the right of C, who is the only one exactly between two females. Only B, who faces C sits with D. H is not a female. J faces F. F is not married. One pair of females are facing each other.
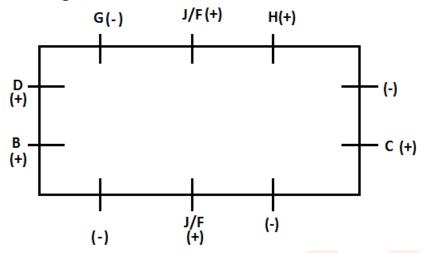

J is married to the one who faces H. The one who faces A is a Bachelor. G is married to the one who sits immediate left to the one who faces G. A is not immediate left to C. So, A cannot face G and sit immediate right to C. Also, D is not married. G is married to B. A is not 3rd to the right of F. I is 2nd left to E. A is not married to C and F. A is married to H and I is married to C.

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Husband	Wife
C	I
J	E
B	G
H	A

S18. Ans.(e)
Sol. G sits immediate left to D, who is a male. H is 2nd to the right of C, who is the only one exactly between two females. Only B, who faces C sits with D. H is not a female. J faces F.F is not married. One pair of females are facing each other.

J is married to the one who faces H. The one who faces A is a Bachelor. G is married to the one who sits immediate left to the one who faces G. A is not immediate left to C. So, A cannot face G and sit immediate right to C. Also, D is not married. G is married to B. A is not 3rd to the right of F. I is 2nd left to E. A is not married to C and F.A is married to H and I is married to C.
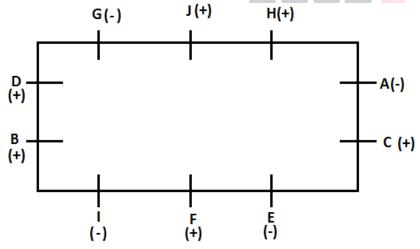

Husband	Wife
C	I
J	E
B	G
H	A

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S19. Ans.(b)
Sol.

G sits immediate left to D, who is a male. H is 2nd to the right of C, who is the only one exactly between two females. Only B, who faces C sits with D. H is not a female. J faces F.F is not married. One pair of females are facing each other.
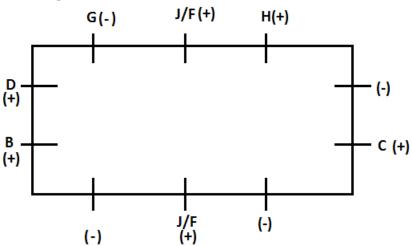

J is married to the one who faces H. The one who faces A is a Bachelor. G is married to the one who sits immediate left to the one who faces G. A is not immediate left to C. So, A cannot face G and sit immediate right to C. Also, D is not married. G is married to B. A is not 3rd to the right of F. I is 2nd left to E. A is not married to C and F.A is married to H and I is married to C.
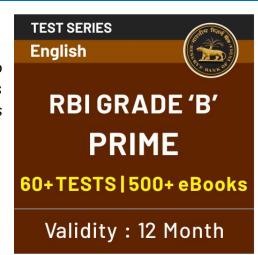

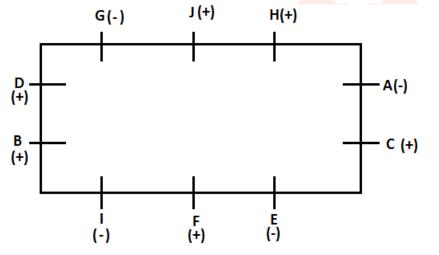| Husband	Wife
C	I
J	E
B	G
H	A

S20. Ans.(c)
Sol. G sits immediate left to D, who is a male. H is 2nd to the right of C, who is the only one exactly between two females. Only B, who faces C sits with D. H is not a female. J faces F.F is not married. One pair of females are facing each other.

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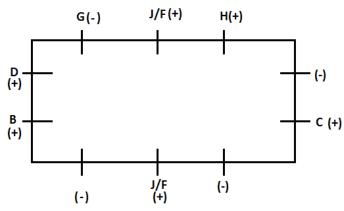
J is married to the one who faces H. The one who faces A is a Bachelor. G is married to the one who sits immediate left to the one who faces G. A is not immediate left to C. So, A cannot face G and sit immediate right to C. Also, D is not married. G is married to B. A is not 3rd to the right of F. I is 2nd left to E. A is not married to C and F.A is married to H and I is married to C.
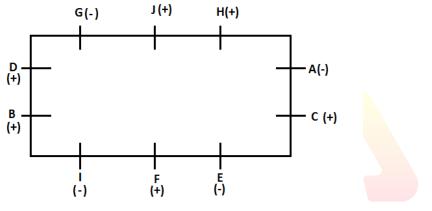
G(-)   J(+)   H(+)

D
(+)   A(-)

B
(+)   C (+)

I   F   E
(-)   (+)   (-)

Husband	Wife
C	I
J	E
B	G
H	A

S21. Ans.(d)

Sol. G sits immediate left to D, who is a male. H is 2nd to the right of C, who is the only one exactly between two females. Only B, who faces C sits with D. H is not a female. J faces F.F is not married. One pair of females are facing each other.

G(-)   J/F(+)   H(+)

D
(+)   (-)

B
(+)   C (+)

(-)   J/F   (-)
        (+)

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J is married to the one who faces H. The one who faces A is a Bachelor. G is married to the one who sits immediate left to the one who faces G. A is not immediate left to C. So, A cannot face G and sit immediate right to C. Also, D is not married. G is married to B. A is not 3rd to the right of F. I is 2nd left to E. A is not married to C and F.A is married to H and I is married to C.
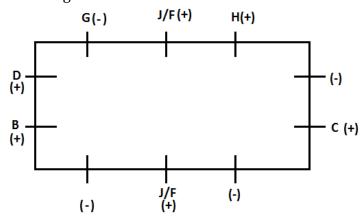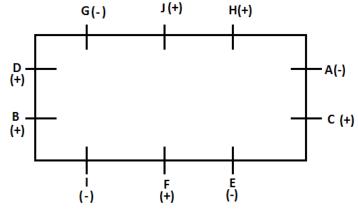

Husband	Wife
C	I
J	E
B	G
H	A

S22. Ans.(b)
Sol.

S23. Ans.(d)
Sol.

S24. Ans.(a)
Sol. I. D < F (True)   **II.** A < W (False)

S25. Ans.(d)
Sol. I. H > S (False)   **II.** F > B (False)

S26. Ans.(b)
Sol. I. F > T (False)   **II.** Y ≤ N (True)

S27. Ans.(b)
Sol. R > Q > P > U (4 feet) > S > T

S28. Ans.(c)
Sol. R > Q > P > U (4 feet) > S > T

S29. Ans.(c)
Sol. A6 > A1(44) > A3 > A5 > A2 > A4(29)

S30. Ans.(a)
Sol. A6 > A1(44) > A3 > A5 > A2 > A4(29)

S31. Ans.(b)
Sol. A6 > A1(44) > A3 > A5 > A2 > A4(29)

S32. Ans.(b)
Sol.

S33. Ans.(a)
Sol. I. Using I only we can determine that Rajan stays on 4th floor.
II. Using II alone, we cannot determine if Rajan stays on 2nd or 4th floor.

S34. Ans.(e)
Sol. 2nd, 6th, 10th and 11th letters are O, A, N and G. Word formed is 'AGON'.

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S35. Ans.(a)

S36. Ans.(a)
Sol.

Quantity I –
Let length of train be L m
$$108 \times \frac{5}{18} = \frac{L}{8}$$
L = 240 m

Quantity II –
Let length of platform be L
$$108 \times \frac{5}{18} = \frac{L+240}{15}$$
L + 240 = 450
L = 210 m
So, Quantity I > Quantity II

S37. Ans.(e)
Sol. Total work = 60 × 45 = 2700 units

Quantity I –
$$2700 \times \frac{40}{100} = 1080 \ units$$
Required days = $\frac{1080}{40} = 27 \ days$

Quantity II –
Required days = $\frac{2700}{100} = 27 \ days$
So, Quantity I = Quantity II

S38. Ans.(e)
Sol.

Quantity I –
$$S.I = \frac{P \times R \times T}{100}$$
$$R = \frac{2025 \times 100}{6400 \times 2.5}$$
R = 15%

Quantity II –
Total interest of two year = $\frac{8464-6400}{6400} \times 100$
= 32.25
32.25% is equivalent CI of two year at 15%
Note: R% equivalent for two years is $R + R + \frac{R \times R}{100}$
$$15 + 15 + \frac{15 \times 15}{100} = 32.25\%$$
So R = 15%
So, Quantity I = Quantity II

S39. Ans.(b)
Sol.
Quantity I –
Let Veer share = x
Sameer share = 10x
Divyaraj share = $10x \times \frac{40}{100} = 14x$
Given, x + 10x + 14x = 1215
x = 48.6
Divyaraj share = $14 \times 48.6 = 680.4$ Rs.
Quantity II –
696.6 Rs.
So, Quantity I < Quantity II

S40. Ans.(e)
Sol.
Quantity I –
Marked price = $\frac{750+60}{90} \times 100$
            = 900 Rs.
Quantity II –
Selling price = $1440 \times \frac{75}{100} \times \frac{85}{100} = 918$ Rs.
Cost price = $918 - 18 = 900$ Rs.
So, Quantity I = Quantity II

S41. Ans.(d)
Sol. Let total quantity of mixture of milk and water in vessel = 11x liters
Quantity of milk in mixture = $11x \times \frac{3}{11} = 3x\, l$
Quantity of milk in the final mixture when
given process repeated two times = $3x \left(1 - \frac{1}{4}\right)^2$
= $3x \times \frac{9}{16}$
= $\frac{27x}{16}$
ATQ –
$\frac{27x}{16} = 40.5$
X = $\frac{40.5 \times 16}{27}$
x = 24
Initial quantity of water in the mixture = $24 \times 8 = 192\, l$

S42. Ans.(a)
Sol.
Let Veer, Sameer & Gopal initial investment be
10x , 12x & 9x respectively
Profit share of Veer , Sameer & Gopal
= $(10x + 10x - 1000) : (12x + 12x - 1200) : (9x + 9x - 1500)$
= $(20x - 1000) : (24x - 1200) : (18x - 1500)$

ATQ –

$$\frac{(24x - 1200)}{(20x - 1000) + (18x - 1500)} = \frac{16200}{40950 - 16200}$$

$$\frac{(24x - 1200)}{(38x - 2500)} = \frac{36}{55}$$

$110x - 5500 = 114x - 7500$

$4x = 2000$

$x = 500$ Rs.

Initial investment of Gopal = $9 \times 500 = 4500$ Rs.

S43. Ans.(c)
Sol. Given,

$$39675 = 30000 \times \left(1 + \frac{X}{100}\right)^2$$

$$\left(1 + \frac{X}{100}\right)^2 = \frac{39675}{30000}$$

$$\left(1 + \frac{X}{100}\right)^2 = \frac{529}{400}$$

$$\left(1 + \frac{X}{100}\right) = \frac{23}{20}$$

$$\frac{X}{100} = \frac{23 - 20}{20}$$

$X = 15\%$

New rate = $(15 + 5) = 20\%$

Required compound interest = $30,000\left[(1 + \frac{20}{100})^2 - 1\right]$

$= 30,000 \times \frac{11}{25}$

$= 13200$ Rs.

S44. Ans.(a)
Sol. Let age of Veer, Sameer, Divyaraj & Ayush be V, S, D & A respectively.

ATQ –

V + S = 2D + 6 ------- (i)

V + A = 2D --------- (ii)

Given, $\frac{S+A}{2} = 25$

S + A = 50 -------- (iii)

And, $\frac{V+S+D+A}{4} = 25$

V + S + D + A = 100 ------------ (iv)

From (i) & (ii) –

S – A = 6 ------------ (v)

From (iii) & (v) –

2S = 56
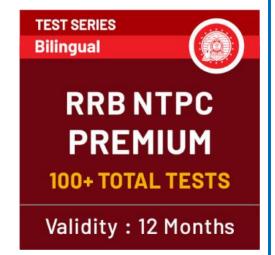
S = 28 years

A = 22 years

From (i) (iii) & (iv) –

V + S + D + A = 100

D = 24 years

V = 100 − (28 + 24 + 22)

V = 26 years

Required difference between age of Veer and Divyaraj = 26 − 24 = 2 years.

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S45. Ans.(e)

Sol.

Given, Length of cuboidal vessel = 20 cm

Let width to the height of cuboidal vessel be

2y and 3y respectively

Total surface area = 2 (lb + bh + hl)

$2(20 \times 2y + 2y \times 3y + 3y \times 20) = 1632$

$40y + 6y^2 + 60y = 816$

$6y^2 + 100y - 816 = 0$

$3y^2 + 50y - 408 = 0$

$y = 6$

Volume of cuboidal vessel = $l \times b \times h = 20 \times 12 \times 18$

$= 4320 \text{ cm}^3$

S46. Ans.(b)

Sol.

$\frac{125}{100} \times 440 + \frac{75}{100} \times 840 + 2 = 40 \times?$

$550 + 630 + 2 = 40 \times ?$

$? \approx 30$

S47. Ans.(b)

Sol.

$? \times 128 + 1728 = (13)^3 + 171$

$? \times 128 = 2197 + 171 - 1728$

$? = \frac{640}{128}$

$? = 5$

S48. Ans.(c)

Sol.

$?^3 \times 15 + \frac{125}{100} \times 464 = (38)^2 + 96$

$?^3 \times 15 = 1444 + 96 - 580$

$?^3 \times 15 = 960$

$?^3 = 64$

$? = 4$

S49. Ans.(b)

Sol.

$1268 + ?^3 = (12)^3 + 52$

$?^3 = 1780 - 1268$

$?^3 = 512$

$? = 8$

S50. Ans.(d)
Sol.

$$\frac{?}{14} + 12^2 - \sqrt{1936} = (16)^2$$

$$\frac{?}{14} = 256 + 44 - 144$$

$$\frac{?}{14} = 156$$

$$? = 2184$$

S51. Ans.(b)
Sol.
Let number of male child who watching movie = 100x

So, number of adult male who watching movie = $100x \times \frac{170}{100} = 170x$

Number of adult female = 100x + 60

Number of female child = $100x \times \frac{2}{3} = \frac{200x}{3}$

$100x + 170x + 100x + 60 + \frac{200x}{3} = 846$

1310x + 180 = 2538

1310x = 2358

x = 1.8

Male child	Adult male	Female child	Adult female
$100 \times 1.8 = 180$	$170 \times 1.8 = 306$	$180 \times \frac{2}{3} = 120$	$180 + 60 = 240$

Required percentage = $\frac{306 - 240}{240} \times 100$

$= \frac{66}{240} \times 100$

$= 27.5\%$

S52. Ans.(c)
Sol.
Let number of male child who watching movie = 100x

So, number of adult male who watching movie = $100x \times \frac{170}{100} = 170x$

Number of adult female = 100x + 60

Number of female child = $100x \times \frac{2}{3} = \frac{200x}{3}$

$100x + 170x + 100x + 60 + \frac{200x}{3} = 846$

1310x + 180 = 2538

1310x = 2358

x = 1.8

Male child	Adult male	Female child	Adult female
$100 \times 1.8 = 180$	$170 \times 1.8 = 306$	$180 \times \frac{2}{3} = 120$	$180 + 60 = 240$

Required average = $\frac{180 + 120}{2}$

$= 150$

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S53. Ans.(d)

Sol.

Let number of male child who watching movie = 100x

So, number of adult male who watching movie = $100x \times \frac{170}{100} = 170x$

Number of adult female = 100x + 60

Number of female child = $100x \times \frac{2}{3} = \frac{200x}{3}$

$100x + 170x + 100x + 60 + \frac{200x}{3} = 846$

1310x + 180 = 2538

1310x = 2358

x = 1.8

Male child	Adult male	Female child	Adult female
$100 \times 1.8 = 180$	$170 \times 1.8 = 306$	$180 \times \frac{2}{3} = 120$	$180 + 60 = 240$

Adult female who watching movie multiplex 'Q' = $180 \times \frac{140}{100} = 252$

Total people watching movie in multiplex 'Q' = $\frac{252}{36} \times 100 = 700$

Required difference = $846 - 700 = 146$

S54. Ans.(d)

Sol.

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

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

$x = 5, 3$

II. $y^2 - 5y - 6y + 30 = 0$

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

$y = 5, 6$

$x \leq y$

S55. Ans.(c)

Sol.

I. $3x^2 - 13x + 14 = 0$

$3x^2 - 7x - 6x + 14 = 0$

$x(3x - 7) - 2(3x - 7) = 0$

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

II. $2y^2 - 17y + 33 = 0$

$2y^2 - 11y - 6y + 33 = 0$

$y(2y - 11) - 3(2y - 11) = 0$

$y = 3, \frac{11}{2}$

$y > x$

S56. Ans.(c)
Sol.

Total complains unresolved in police
stations A = $9600 \times \frac{75}{100} = 7200$

Total complains unresolved in police
stations C = $4800 \times \frac{85}{100} = 4080$

Total complains unresolved in police
stations E = $8000 \times \frac{60}{100} = 4800$

Required average = $\frac{7200+4080+4800}{3}$

$= 5360$

S57. Ans.(d)
Sol.

Total complain resolved in police station
B = $8400 \times \frac{30}{100} = 2520$

Total complain resolved in police station
A & D = $9600 \times \frac{25}{100} + 6400 \times \frac{1}{8}$

$= 2400 + 800$

$= 3200$

Required percentage = $\frac{3200 - 2520}{3200} \times 100$

$= \frac{680}{3200} \times 100$

$= 21.25\%$

S58. Ans.(a)
Sol.

Total number of complains resolved in police
stations B & E

$= = 8400 \times \frac{30}{100} + 8000 \times \frac{40}{100}$

$= 2520 + 3200$

$= 5720$

Total complains unresolved in police station C

$= 4800 \times \frac{85}{100} = 4080$

Required difference = $5720 - 4080$

$= 1640$

S59. Ans.(b)
Sol.

Total complains resolved in police stations
A & D $= 9600 \times \frac{25}{100} + 6400 \times \frac{1}{8}$

$= 2400 + 800$

$= 3200$

Total complains unresolved in police station
B = $8400 \times \frac{70}{100} = 5880$

Required ratio = $\frac{3200}{5880}$

$= 80 : 147$

S60. Ans.(b)

Sol.

Total complains unresolved in police station

$B = 8400 \times \frac{70}{100} = 5880$

Total complains unresolved in police station

$E = 8000 \times \frac{60}{100} = 4800$

Required percentage $= \frac{5880-4800}{4800} \times 100$

$= \frac{1080}{4800} \times 100$

$= 22.5\%$

S61. Ans.(b)

Sol.

Let cost price of two articles A & B be Rs. 160x

and Rs. 180x respectively

Marked price of article A $= 160x \times \frac{125}{100} = 200x$ Rs.

Marked price of article B $= 180x \times \frac{112.5}{100} = 202.5x$ Rs.

Selling price of article A $= 200x \times \frac{85}{100} = 170x$ Rs.

Selling price of article B $= 202.5x \times \frac{90}{100} = 182.25x$ Rs.

Profit $= (182.25x + 170x) - (160x + 180x)$

$= 12.25x$

Given, $12.25x = 110.25$

$x = 9$ Rs.

Total cost price of article A & B $= (160 \times 9) + (180 \times 9)$

$= 1440 + 1620$

$= 3060$ Rs.

S62. Ans.(d)

Sol.

Total work = 80 units (LCM of days taken by A, B & C)

Efficiency of A = 4 units/day

Efficiency of B = 2 units/day

Efficiency of C = 1 unit/day

Work done by C in 2 days

$=1 \times 2 = 2$ units

Work done by B in 4 days

$=2 \times 4 = 8$ units

Work done by A = 80 - 2 - 8 = 70

Percentage of work done by A

$=\frac{70}{80} \times 100 = 87.5\%$

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S63. Ans.(a)

Sol.

Let length of smaller train be L m and longer train be (L + 60) m

ATQ –

$(144 + 108) \times \frac{5}{18} = \frac{L+L+60}{6}$

2L + 60 = 420

L = 180 m

Longer train length = 180 + 60 = 240 m

Let length of platform = P m

$108 \times \frac{5}{18} = \frac{P+240}{20}$

P + 240 = 600

P = 360 m

Let smaller train will cross the platform in T sec

$144 \times \frac{5}{18} = \frac{180+360}{T}$

40T = 540

T = 13.5 sec

S64. Ans.(d)

Sol.

ATQ –

$\frac{X}{X+9} = \frac{1}{4}$

4X = X + 9

X = 3

Total number of balls = 12

Possible cases = (2 yellow and 1 green) or (2 yellow and 1 red) or 3 yellow

Required probability $= \frac{3 \times 4}{220} + \frac{3 \times 5}{220} + \frac{1}{220}$

$= \frac{28}{220}$

$= \frac{7}{55}$

S65. Ans.(d)

Sol.

A = 45 hr

$B = \frac{45}{3} \times 2 = 30 \ hr$

Total capacity of tank = 45 × 2 = 90 units

Efficiency of A = 2 units/hr

Efficiency of B = 3 units/hr

$C = \frac{90}{3} - 7.5$

= 22.5 hr

C efficiency $= \frac{90}{22.5}$

= 4 units/hr

According to question

$\Rightarrow \dfrac{5x}{4(x+9)} = \dfrac{1}{2}$

$\Rightarrow 10x - 4x = 36$

$x = 6$ hr

S66. Ans.(b)
Sol.

Total employees preferred metro from company S & T

$= 91 \times \dfrac{70}{14} + 110 \times \dfrac{72.5}{12.5}$

$= 455 + 638$

$= 1093$

Total employees preferred bus from company T, P & S

$= 110 \times \dfrac{15}{12.5} + 92 \times \dfrac{24}{8} + 91 \times \dfrac{16}{14}$

$= 132 + 276 + 104$

$= 512$

Required difference = 1093 – 512 = 581

S67. Ans.(d)
Sol.

Total employee in P = $92 \times \dfrac{100}{8} = 1150$

Total employee in S = $91 \times \dfrac{100}{14} = 650$

Total employee in P & S = 1150 + 650 = 1800

Required average = $\dfrac{1800}{2} = 900$

S68. Ans.(a)
Sol.

Total number of employee prefer metro from company 'A'

$= 39 \times \dfrac{60}{5} \times \dfrac{125}{100}$

$= 585$

Total employee in company 'A' = $585 \times \dfrac{100}{45} = 1300$

Total employee in company 'T' = $110 \times \dfrac{100}{12.5} = 880$

Required percentage = $\dfrac{1300 - 880}{1300} \times 100$

$= 32\dfrac{4}{13}\%$

S69. Ans.(b)
Sol.

Total employee prefer bus from company R = $192 \times \dfrac{30}{15} = 384$

Total employee prefer bus from company S = $91 \times \dfrac{16}{14} = 104$

Required ratio = $\dfrac{384}{104}$

$= 48 : 13$

S70. Ans.(a)
Sol.

Total employees preferred metro from company P = $92 \times \frac{68}{8} = 782$

Total employees preferred metro from company Q = $39 \times \frac{60}{5} = 468$

Total employees preferred metro from company R = $192 \times \frac{55}{15} = 704$

Required sum = $782 + 468 + 704 = 1954$

S71. Ans.(b)
Sol. The suitable answer here is option (b). The answer can be deduced from paragraph 1 where it is mentioned that *it is not difficult to see a majoritarianism in the actions that have taken place in recent times as the victims are from the most marginalized sections of the country, left without protection by the state.*

S72. Ans.(c)
Sol. The appropriate answer is option (c). Refer to paragraph 2 where it is mentioned that *while civilizational norms may place restrictions on individual action, democratic norms singularly protect the individual's inalienable right to life and liberty and place upon the state the responsibility of advancing it.* From this explanation, we can clearly infer that option (a) and option (b) stands out as incorrect since civilizational norms place restrictions on individual action.

S73. Ans.(d)
Sol. The only correct option here is option (d).Refer to paragraph 2, where it is quoted that emphasizing a space program as an objective while failing to highlight the multiple failings of public policy in India makes a mockery of the democratic project*, the principal object of which is the creation of enabling conditions for a valuable life.*

S74. Ans.(c)
Sol. Option (c) is the correct choice. It is the only statement which is definitely false according to the passage. Refer to paragraph 3 where it is mentioned *the only question is whether we have a science policy that is focused enough to monitor and exploit these trends and a government machinery that is both motivated and adept at facilitating a mass transition to cleaner fuel.* Hence it is not clear and comprehensible that India has a focused science policy.

S75. Ans.(b)
Sol. Option (b) is the appropriate answer which can be deduced from paragraph 4 where it is given promising the moon by courting high science while ignoring human development leaves some Indians at the mercy of the mob and India's democracy diminished in our own estimation. Hence the answer.

S76. Ans.(c)
Sol. Unfurled means make or become spread out from a rolled or folded state.
Unrolled means the same.
Amassed means accumulated.
Accrued means collected, gathered.

S77. Ans.(c)
Sol. Provocation means incitement or stimulation.
Conciliation means the action of stopping someone being angry; placation.
Intercession means the action of intervening on behalf of another
Arbitration means peacemaking.
Mediation means negotiation.

S78. Ans.(b)
Sol. Incongruity means incompatibility. Discrepancy means the same.
Consonance means agreement or compatibility between opinions or actions
Concurrence means agreement or consistency.
Aptness means the quality of being appropriate or suitable.

S79. Ans.(d)
Sol. Inalienable means not subject to being taken away from or given away by the possessor.
The correct answer could be conveyable. Conveyable means could be violated.
Hence it is the answer.
Inviolable means never to be broken, infringed, or dishonoured.
Sacrosanct means sacred.
Unassailable means unable to be attacked, questioned, or defeated.

S80. Ans.(e)
Sol. Erratically means in a manner that is not even or regular in pattern or movement; unpredictably.
Capriciously means impulsively.
Eccentrically means deviating from a conventional way.
Hence consistently is the only option.

S81. Ans.(b)
Sol. 'The' will not be used before detail because "in detail, in difficulty, in problem, in fear, in hope, in sense, in conclusion" are idiomatic expressions.

S82. Ans.(c)
Sol. Option (c) is the correct choice for the given question.
"If you set your mind to a goal, **you'll eventually** achieve it" ---- is the correct form.
Explanation: Use the zero conditional (i.e., simple present + simple present) only when a certain result is guaranteed. If the result is likely, use the first conditional (i.e., simple present + simple future).

S83. Ans.(a)
Sol. The correct form is:
On Thursday, I will have known you for a week.
Remember that nonaction verbs like 'to be', 'to seem', or 'to know' are not suited to the future perfect continuous tense. Instead, these verbs take the future perfect tense, which is formed with will + have + past participle.

S84. Ans.(e)
Sol. All the given statements are correct

S85. Ans.(b)
Sol. The correct format for the given question =
If I had cleaned the house, I **could have gone** to the movies.
Explanation: The third conditional mood expresses a situation that could have only happened in the past if a certain condition had been met. That's why we use the modal auxiliary verb + have + the past participle.

S86. Ans.(b)
Sol. The correct sequence is **DBACEF.**
B is the fixed sentence which indicates that **D** must be the first sentence as Congress is handicapped by the fact that they don't have the chief ministerial candidate which is the advantage BJP has as mentioned in the **D**. After **D-B, A** is the suitable choice for the third sentence as it is highlighting the fact that Congress has failed to capitalize on the advantage it had due to the Vyapam scam. **C-E** is giving the reason for Congress' failure in taking the advantage. **F** is stating the impact the factionalism could have over the voters.

S87. Ans.(d)
Sol. The correct sequence is **DBACEF.**
B is the fixed sentence which indicates that **D** must be the first sentence as Congress is handicapped by the fact that they don't have the chief ministerial candidate which is the advantage BJP has as mentioned in the D. After **D-B, A** is the suitable choice for the third sentence as it is highlighting the fact that Congress has failed to capitalize on the advantage it had due to the Vyapam scam. **C-E** is giving the reason for Congress' failure in taking the advantage. **F** is stating the impact the factionalism could have over the voters.

S88. Ans.(a)
Sol. The correct sequence is **DBACEF.**
B is the fixed sentence which indicates that D must be the first sentence as Congress is handicapped by the fact that they don't have the chief ministerial candidate which is the advantage BJP has as mentioned in the D. After **D-B, A** is the suitable choice for the third sentence as it is highlighting the fact that Congress has failed to capitalize on the advantage it had due to the Vyapam scam. **C-E** is giving the reason for Congress' failure in taking the advantage. **F** is stating the impact the factionalism could have over the voters.

S89. Ans.(e)
Sol. The correct sequence is **DBACEF.**
B is the fixed sentence which indicates that D must be the first sentence as Congress is handicapped by the fact that they don't have the chief ministerial candidate which is the advantage BJP has as mentioned in the D. After **D-B, A** is the suitable choice for the third sentence as it is highlighting the fact that Congress has failed to capitalize on the advantage it had due to the Vyapam scam. **C-E** is giving the reason for Congress' failure in taking the advantage. **F** is stating the impact the factionalism could have over the voters.

S90. Ans.(a)
Sol. The correct sequence is **DBACEF.**
B is the fixed sentence which indicates that D must be the first sentence as Congress is handicapped by the fact that they don't have the chief ministerial candidate which is the advantage BJP has as mentioned in the D. After **D-B, A** is the suitable choice for the third sentence as it is highlighting the fact that Congress has failed to capitalize on the advantage it had due to the Vyapam scam. **C-E** is giving the reason for Congress' failure in taking the advantage. **F** is stating the impact the factionalism could have over the voters.

S91. Ans.(a)
Sol. The most suitable word that will fill the blank in the given passage is "assistance" as the sentence has described that there is an urgent need of food to survive. Hence, option (a) is the most suitable answer choice.
Hindrance means a thing that provides resistance, delay, or obstruction to something or someone.
Archives means the place where historical documents or records are kept.

S92. Ans.(e)
Sol. Since the sentence has described about the issues such as irregular rainfall, low production within agriculture and the blank is connected using the conjunction "and", it requires an issue in the similar context. All the other words are contextually incorrect in the context of the paragraph, hence option (e) is the most suitable answer choice.
Desertification means the process by which fertile land becomes desert, typically as a result of drought, deforestation, or inappropriate agriculture.
Deluge means a severe flood.
Forestation means establishment of forest growth

S93. Ans.(b)
Sol. The most suitable word that will fill the blank in the given passage is "protracted". Since the paragraph has mentioned about the elongated droughts and the second sentence mentions the adverb "also" indicates that conflicts and terrorism have also been prevailing in Sahel over a period of time. All the other words are irrelevant in context of the paragraph. Hence, option (b) is the most suitable answer choice.
Abbreviated means shorten the duration of; cut shor
Hampered means hinder or impede the movement or progress of.

S94. Ans.(d)
Sol. The most suitable word that will fill the blank in the given passage is "vulnerability" as it means the quality or state of being exposed to the possibility of being attacked or harmed, either physically or emotionally. All the other words are contextually incorrect and therefore, cannot be used to fill the blank. Hence, option (d) is the most suitable answer choice.
Obligation means an act or course of action to which a person is morally or legally bound; a duty or commitment.
Immunity means protection or exemption from something, especially an obligation or penalty.

S95. Ans.(e)
Sol. The most suitable word that will fill the blank in the given passage is "underfunded". It is to be noted that the usage of the adverb "however" in the given sentence indicates a contrast between the clauses. As the initial part of the sentence illustrates about the funding by the organisations, the latter part must suggests the insufficient amount of funds. All the other words are contextually incorrect and therefore, cannot be used to fill the blank. Hence, option (e) is the most suitable answer choice.

Upgraded means raise (something) to a higher standard, in particular improve (equipment or machinery) by adding or replacing components.

Enriched means improve or enhance the quality or value of.

Civilised means bring (a place or people) to a stage of social development considered to be more advanced.

S96. Ans.(b)
Sol. Out of the three given starters, starter (iii) successfully form the grammatically correct and contextually meaningful sentence without altering the intended meaning. Hence, option (b) is the correct answer.

By attacking the BJP government on its "episodic" foreign policy approach, Rahul Gandhi kicked off his first official trip to the UK as the president of the Congress.

S97. Ans.(b)
Sol. Out of the three given starters, starters (i) and (iii) successfully form the grammatically correct and contextually meaningful sentence without altering the intended meaning. Hence, option (b) is the correct answer.

With the centre deciding not to accept any foreign government donations for flood relief, a row has broken out.

A row has broken out over the Centre deciding not to accept any foreign government donations for flood relief.

S98. Ans.(a)
Sol. Among the given starters, starter (i) successfully form the grammatically correct and contextually meaningful sentence without altering the intended meaning. Hence, option (a) is the correct answer.
With the launch of Jio GigaFiber broadband, RIL is trying to be a disrupter in the broadband market in India.

S99. Ans.(e)
Sol. None of the given starters are successful in making a grammatically correct and contextually meaningful sentence upon combining (I) and (II). Hence, option (e) is the correct answer.

The correct sentence could have been '*Musk declined to comment further on Friday on how he arrived at his decision*'.

S100. Ans.(c)
Sol. Out of the three given starters, starter (i) successfully forms the grammatically correct and contextually meaningful sentence without altering the intended meaning. Hence, option (c) is the correct answer.
The car is more than 17 feet long but just 3 feet deep and has a side skirt with a lighting strip.

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