

SOLUTIONS

1. Ans. B.
 Given:
 F sits at an extreme end.
 The one who like Mango sits to the immediate right of F and does not face north direction.
 D sits third to the right of F
 D does not like Papaya.
 B likes Apple and sits third to the right of A, who is an immediate neighbor of D
 The person A likes Pineapple.
 B does not sit at an extreme end.
 C does not like Mango.
 Conclusion:
 From above statements,
 F sits at an extreme end. Here we get two possibilities.
 The one who like Mango sits to the immediate right of F & faces south direction.
 The person A sits 2nd to the right of F in both cases.
 By using all above information, we get following cases,

Case: 1								
Direction	North	South	North					
Person	F	C	A	D		B		B
Fruits		Mango	Pineapple	Papaya		Apple		

Case: 2								
Direction					South	South	South	
Person	B		B	D	A	C	F	
Fruits			Apple	Papaya	Pineapple	Mango		

- Given:
 E likes Bilberry and sits third to the right of D.
 E does not face north direction.
 Conclusion:
 From above statements,
 In case-1, D faces north direction and E faces south direction.

Case: 1								
Direction	North	South	North	North			South	
Person	F	C	A	D		B	E	B
Fruits		Mango	Pineapple	Papaya		Apple	Bilberry	

In case-1, D faces south direction and E faces south direction. Therefore total, 5 persons

face south direction which violates the basic condition of 4 people facing north and 4 facing south. Hence this case can be eliminated.

Case: 2 [Eliminated]								
4 person face north & 4 person face south								
Direction		South		South	South	South	South	
Person	B	E	B	D	A	C	F	
Fruits		Bilberry	Apple	Papaya	Pineapple	Mango		

- Given:
 H, who likes Avacado, sits third to the left of the one who like Kiwi.
 Three people sit between the one who likes Papaya and Kiwi.
 Both immediate neighbors of C face opposite direction to each other.
 Conclusion:
 From above statements,
 H sits on the immediate left of E. The one who like Kiwi sits on the immediate right of D and F likes Papaya. Finally G likes Mango, C likes Kiwi and D likes Orange.
 Both immediate neighbors of C face opposite direction to each other. It means, if one faces north direction then the other faces south direction or vice versa. So, B faces South and H faces north direction.
 Thus we get the completed arrangement

Case: 1								
Direction	North	South	North	North	South	South	South	North
Person	F	G	A	D	C	B	E	H
Fruits	Papaya	Mango	Pineapple	Orange	Kiwi	Apple	Bilberry	Avacado

The following common explanation, we get "C-Kiwi".

2. Ans. E.
 Given:
 F sits at an extreme end.
 The one who like Mango sits to the immediate right of F and does not face north direction.
 D sits third to the right of F.
 D does not like Papaya.
 B likes Apple and sits third to the right of A, who is an immediate neighbor of D.
 The person A likes Pineapple.
 B does not sit at an extreme end.
 C does not like Mango.
 Conclusion:
 From above statements,



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F sits at an extreme end. Here we get two possibilities.

The one who like Mango sits to the immediate right of F & faces south direction.

The person A sits 2nd to the right of F in both cases.

By using all above information, we get following cases,

Case: 1								
Direction	North	South	North					
Person	F	C	A	D		B		B
Fruits		Mango	Pineapple	Papaya		Apple		

Case: 2								
Direction					South	South	South	
Person	B		B	D	A	C	F	
Fruits			Apple	Papaya	Pineapple	Mango		

Given:

E likes Bilberry and sits third to the right of D. E does not face north direction.

Conclusion:

From above statements,

In case-1, D faces north direction and E faces south direction.

Case: 1								
Direction	North	South	North	North			South	
Person	F	C	A	D		B	E	B
Fruits		Mango	Pineapple	Papaya		Apple	Bilberry	

In case-1, D faces south direction and E faces south direction. Therefore total, 5 persons face south direction which violates the basic condition of 4 people facing north and 4 facing south. Hence this case can be eliminated.

Case: 2 [Eliminated]								
4 person face north & 4 person face south								
Direction		South			South	South	South	South
Person	B	E	B		D	A	C	F
Fruits		Bilberry	Apple		Papaya	Pineapple	Mango	

Given:

H, who likes Avacado, sits third to the left of the one who like Kiwi.

Three people sit between the one who likes Papaya and Kiwi.

Both immediate neighbors of C face opposite direction to each other.

Conclusion:

From above statements,

H sits on the immediate left of E. The one who like Kiwi sits on the immediate right of D and F likes Papaya. Finally G likes Mango, C likes Kiwi and D likes Orange.

Both immediate neighbors of C face opposite direction to each other. It means, if one faces north direction then the other faces south direction or vice versa. So, B faces South and H faces north direction.

Thus we get the completed arrangement

Case: 1								
Direction	North	South	North	North	South	South	South	North
Person	F	G	A	D	C	B	E	H
Fruits	Papaya	Mango	Pineapple	Orange	Kiwi	Apple	Bilberry	Avacado

The following common explanation, we get "H".

3. Ans. D.

Given:

F sits at an extreme end.

The one who like Mango sits to the immediate right of F and does not face north direction.

D sits third to the right of F.

D does not like Papaya.

B likes Apple and sits third to the right of A, who is an immediate neighbor of D.

The person A likes Pineapple.

B does not sit at an extreme end.

C does not like Mango.

Conclusion:

From above statements,

F sits at an extreme end. Here we get two possibilities.

The one who like Mango sits to the immediate right of F & faces south direction.

The person A sits 2nd to the right of F in both cases.

By using all above information, we get following cases,

Case: 1								
Direction	North	South	North					
Person	F	C	A	D		B		B
Fruits		Mango	Pineapple	Papaya		Apple		



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Case: 2								
Direction					South	South	South	
Person	B		B		D	A	C	F
Fruits			Apple		Papaya	Pineapple	Mango	

Given:

E likes Bilberry and sits third to the right of D.
E does not face north direction.

Conclusion:

From above statements,
In case-1, D faces north direction and E faces south direction.

Case: 1								
Direction	North	South	North	North			South	
Person	F	C	A	D		B	E	B
Fruits		Mango	Pineapple	Papaya		Apple	Bilberry	

In case-1, D faces south direction and E faces south direction. Therefore total, 5 persons face south direction which violates the basic condition of 4 people facing north and 4 facing south. Hence this case can be eliminated.

Case: 2 [Eliminated]								
4 person face north & 4 person face south								
Direction		South			South	South	South	South
Person	B	E	B		D	A	C	F
Fruits		Bilberry	Apple		Papaya	Pineapple	Mango	

Given:

H, who likes Avacado, sits third to the left of the one who like Kiwi.

Three people sit between the one who likes Papaya and Kiwi.

Both immediate neighbors of C face opposite direction to each other.

Conclusion:

From above statements,
H sits on the immediate left of E. The one who like Kiwi sits on the immediate right of D and F likes Papaya. Finally G likes Mango, C likes Kiwi and D likes Orange.

Both immediate neighbors of C face opposite direction to each other. It means, if one faces north direction then the other faces south direction or vice versa. So, B faces South and H faces north direction.

Thus we get the completed arrangement

Case: 1								
Direction	North	South	North	North	South	South	South	North
Person	F	G	A	D	C	B	E	H
Fruits	Papaya	Mango	Pineapple	Orange	Kiwi	Apple	Bilberry	Avacado

The following common explanation, we get "The one who likes Orange".

A-Pineapple and his/her immediate right is D.
D likes Orange

4. Ans. D.

Given:

F sits at an extreme end.

The one who like Mango sits to the immediate right of F and does not face north direction.

D sits third to the right of F.

D does not like Papaya.

B likes Apple and sits third to the right of A, who is an immediate neighbor of D.

The person A likes Pineapple.

B does not sit at an extreme end.

C does not like Mango.

Conclusion:

From above statements,

F sits at an extreme end. Here we get two possibilities.

The one who like Mango sits to the immediate right of F & faces south direction.

The person A sits 2nd to the right of F in both cases.

By using all above information, we get following cases,

Case: 1								
Direction	North	South	North					
Person	F	C	A		D		B	B
Fruits		Mango	Pineapple		Papaya		Apple	

Case: 2								
Direction					South	South	South	
Person	B		B		D	A	C	F
Fruits			Apple		Papaya	Pineapple	Mango	

Given:

E likes Bilberry and sits third to the right of D.

E does not face north direction.

Conclusion:

From above statements,



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In case-1, D faces north direction and E faces south direction.

Case: 1							
Direction	North	South	North	North			South
Person	F	C	A	D		B	E
Fruits		Mango	Pineapple	Papaya		Apple	Bilberry

In case-1, D faces south direction and E faces south direction. Therefore total, 5 persons face south direction which violates the basic condition of 4 people facing north and 4 facing south. Hence this case can be eliminated.

Case: 2 [Eliminated]							
4 person face north & 4 person face south							
Direction		South		South	South	South	South
Person	B	E	B	D	A	C	F
Fruits		Bilberry	Apple	Papaya	Pineapple	Mango	

Given:

H, who likes Avacado, sits third to the left of the one who like Kiwi.

Three people sit between the one who likes Papaya and Kiwi.

Both immediate neighbors of C face opposite direction to each other.

Conclusion:

From above statements,

H sits on the immediate left of E. The one who like Kiwi sits on the immediate right of D and F likes Papaya. Finally G likes Mango, C likes Kiwi and D likes Orange.

Both immediate neighbors of C face opposite direction to each other. It means, if one faces north direction then the other faces south direction or vice versa. So, B faces South and H faces north direction.

Thus we get the completed arrangement

Case: 1								
Direction	North	South	North	North	South	South	South	North
Person	F	G	A	D	C	B	E	H
Fruits	Papaya	Mango	Pineapple	Orange	Kiwi	Apple	Bilberry	Avacado

The following common explanation, we get "(One person) [Only F sits to the right of G, who likes Mango]".

5. Ans. A.

Given:

F sits at an extreme end.

The one who like Mango sits to the immediate right of F and does not face north direction.

D sits third to the right of F.

D does not like Papaya.

B likes Apple and sits third to the right of A, who is an immediate neighbor of D.

The person A likes Pineapple.

B does not sit at an extreme end.

C does not like Mango.

Conclusion:

From above statements,

F sits at an extreme end. Here we get two possibilities.

The one who like Mango sits to the immediate right of F & faces south direction.

The person A sits 2nd to the right of F in both cases.

By using all above information, we get following cases,

Case: 1							
Direction	North	South	North				
Person	F	C	A	D		B	B
Fruits		Mango	Pineapple	Papaya		Apple	

Case: 2							
Direction					South	South	South
Person	B		B	D	A	C	F
Fruits			Apple	Papaya	Pineapple	Mango	

Given:

E likes Bilberry and sits third to the right of D.

E does not face north direction.

Conclusion:

From above statements,

In case-1, D faces north direction and E faces south direction.

Case: 1							
Direction	North	South	North	North		South	
Person	F	C	A	D		B	E
Fruits		Mango	Pineapple	Papaya		Apple	Bilberry



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In case-1, D faces south direction and E faces south direction. Therefore total, 5 persons face south direction which violates the basic condition of 4 people facing north and 4 facing south. Hence this case can be eliminated.

Case: 2 [Eliminated]								
4 person face north & 4 person face south								
Direction		South			South	South	South	South
Person	B	E	B		D	A	C	F
Fruits		Bilberry	Apple		Papaya	Pineapple	Mango	

Given:
 H, who likes Avacado, sits third to the left of the one who like Kiwi.
 Three people sit between the one who likes Papaya and Kiwi.
 Both immediate neighbors of C face opposite direction to each other.

Conclusion:
 From above statements,
 H sits on the immediate left of E. The one who like Kiwi sits on the immediate right of D and F likes Papaya. Finally G likes Mango, C likes Kiwi and D likes Orange.

Both immediate neighbors of C face opposite direction to each other. It means, if one faces north direction then the other faces south direction or vice versa. So, B faces South and H faces north direction.

Thus we get the completed arrangement

Case: 1								
Direction	North	South	North	North	South	South	South	North
Person	F	G	A	D	C	B	E	H
Fruits	Papaya	Mango	Pineapple	Orange	Kiwi	Apple	Bilberry	Avacado

Clearly, F like papaya.

6. Ans. D.
 In Step 1:
 We have taken highest number and added 1^2 to it and placed it first. Also we took the word starting with vowel according to alphabetical order and placed just after the number.
 In step 2:
 We have taken highest number and subtracted 2^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to

alphabetical order and placed it after the number.

In step 3:
 We have taken highest number and added 3^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

We followed the procedure till all words starting with vowel and placed after that number logic is still same and for words we started using reverse alphabetical order.

Input: 15 bank 84 long 72 28 are 46 evening 30 clock india.

Step 1: 85 are 15 bank long 72 28 46 evening 30 clock india

Step 2: 85 are 68 evening 15 bank long 28 46 30 clock india

Step 3: 85 are 68 evening 55 india 15 bank long 28 30 clock

Step 4: 85 are 68 evening 55 india 14 long 15 bank 28 clock

Step 5: 85 are 68 evening 55 india 14 long 53 clock 15 bank

Step 6: 85 are 68 evening 55 india 14 long 53 clock (-21) bank

Step 4: 85 are 68 evening 55 india 14 long 15 bank 28 clock

7. Ans. B.

In Step 1:
 We have taken highest number and added 1^2 to it and placed it first. Also we took the word starting with vowel according to alphabetical order and placed just after the number.

In step 2:
 We have taken highest number and subtracted 2^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

In step 3:
 We have taken highest number and added 3^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

We followed the procedure till all words starting with vowel and placed after that number logic is still same and for words we started using reverse alphabetical order.



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Input: 15 bank 84 long 72 28 are 46 evening 30 clock india.

Step 1: 85 are 15 bank long 72 28 46 evening 30 clock india

Step 2: 85 are 68 evening 15 bank long 28 46 30 clock india

Step 3: 85 are 68 evening 55 india 15 bank long 28 30 clock

Step 4: 85 are 68 evening 55 india 14 long 15 bank 28 clock

Step 5: 85 are 68 evening 55 india 14 long 53 clock 15 bank

Step 6: 85 are 68 evening 55 india 14 long 53 clock (-21) bank

Step 5: 85 are 68 evening 55 india 14 long 53 **clock** 15 bank

8. Ans. C.

In Step 1:

We have taken highest number and added 1^2 to it and placed it first. Also we took the word starting with vowel according to alphabetical order and placed just after the number.

In step 2:

We have taken highest number and subtracted 2^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

In step 3:

We have taken highest number and added 3^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

We followed the procedure till all words starting with vowel and placed after that number logic is still same and for words we started using reverse alphabetical order.

Input: 15 bank 84 long 72 28 are 46 evening 30 clock india.

Step 1: 85 are 15 bank long 72 28 46 evening 30 clock india

Step 2: 85 are 68 evening 15 bank long 28 46 30 clock india

Step 3: 85 are 68 evening 55 india 15 bank long 28 30 clock

Step 4: 85 are 68 evening 55 india 14 long 15 bank 28 clock

Step 5: 85 are 68 evening 55 india 14 long 53 clock 15 bank

Step 6: 85 are 68 evening 55 india 14 long 53 clock (-21) bank

Step 3: 85 are 68 evening **55 india 15 bank long** 28 30 clock

9. Ans. D.

In Step 1:

We have taken highest number and added 1^2 to it and placed it first. Also we took the word starting with vowel according to alphabetical order and placed just after the number.

In step 2:

We have taken highest number and subtracted 2^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

In step 3:

We have taken highest number and added 3^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

We followed the procedure till all words starting with vowel and placed after that number logic is still same and for words we started using reverse alphabetical order.

Input: 15 bank 84 long 72 28 are 46 evening 30 clock india.

Step 1: 85 are 15 bank long 72 28 46 evening 30 clock india

Step 2: 85 are 68 evening 15 bank long 28 46 30 clock india

Step 3: 85 are 68 evening 55 india 15 bank long 28 30 clock

Step 4: 85 are 68 evening 55 india 14 long 15 bank 28 clock

Step 5: 85 are 68 evening 55 india 14 long 53 clock 15 bank

Step 6: 85 are 68 evening 55 india 14 long 53 clock (-21) bank

Step 5: 85 are 68 evening 55 india 14 long 53 **clock** 15 bank

10. Ans. A.

In Step 1:

We have taken highest number and added 1^2 to it and placed it first. Also we took the word starting with vowel according to alphabetical order and placed just after the number.

In step 2:

We have taken highest number and subtracted 2^2 to it and placed it after the word placed in previous step. Also we took the



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word starting with vowel according to alphabetical order and placed it after the number.

In step 3:

We have taken highest number and added 3^2 to it and placed it after the word placed in previous step. Also we took the word starting with vowel according to alphabetical order and placed it after the number.

We followed the procedure till all words starting with vowel and placed after that number logic is still same and for words we started using reverse alphabetical order.

Input: 15 bank 84 long 72 28 are 46 evening 30 clock india.

Step 1: 85 are 15 bank long 72 28 46 evening 30 clock india

Step 2: 85 are 68 evening 15 bank long 28 46 30 clock india

Step 3: 85 are 68 evening 55 india 15 bank long 28 30 clock

Step 4: 85 are 68 evening 55 india 14 long 15 bank 28 clock

Step 5: 85 are 68 evening 55 india 14 long 53 clock 15 bank

Step 6: 85 are 68 evening 55 india 14 long 53 clock (-21) bank

11. Ans. A.

Green house gases are the root cause of global warming. Hence both A and R are true and R explains A.

12. Ans. C.

All the statement a, d and e supports the argument either directly or indirectly. Statement b neither support nor refute, it simply states a fact. Statement c however shows that the argument of NBA's MD is very weak. Statement c points out that the claims of MD are not applicable to customers of NBA. Majority of them do not have very high income and do not have internet or the know how to do internet banking. It will cause decrees in the percentage of their disposable income and increased cost due to banking charges. Hence the argument saying it is to help people in this contest is absurd.

13. Ans. A.

We will first list out all the points

1. Orange __ A
2. B/C(grey) __ C(grey)/B
3. CD / C_D / C__ D
4. Orange __ __ Blue
5. D/Orange __ Orange/D

From point 1 and point 4 and Blue color shirt person is standing below the floor of person A we can say that

Orange __ A Blue

As given The person who is wearing blue colour is on ground floor we will get from point 5

D _ Orange __ A Blue

As given More than four floors are in between person B and Orange color shirt person

B __ __ D _ Orange __ A Blue

As given There are as same number of floors between person C and the person who is wearing Orange colour as same as between The person who is wearing orange colour and the person wearing blue color shirt. We will get

B _ C(grey) _ D E(red) Orange __ A Blue

Person	Person wearing shirt color
B	-----
-----	-----
C	Grey
-----	-----
D	-----
E	Red
-----	Orange
-----	-----
-----	-----
A	-----
-----	Blue

14. Ans. C.

We will first list out all the points

6. Orange __ A
7. B/C(grey) __ C(grey)/B
8. CD / C_D / C__ D
9. Orange __ __ Blue
10. D/Orange __ Orange/D

From point 1 and point 4 and Blue color shirt person is standing below the floor of person A we can say that

Orange __ A Blue

As given The person who is wearing blue colour is on ground floor we will get from point 5

D _ Orange __ A Blue

As given More than four floors are in between person B and Orange color shirt person

B __ __ D _ Orange __ A Blue



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As given There are as same number of floors between person C and the person who is wearing Orange colour as same as between The person who is wearing orange colour and the person wearing blue color shirt. We will get

B _ C(grey) _ D E(red) Orange _ _ A Blue

Person	Person wearing shirt color
B	-----
-----	-----
C	Grey
-----	-----
D	-----
E	Red
-----	Orange
-----	-----
-----	-----
A	-----
-----	Blue

15. Ans. D.
 We will first list out all the points
 11. Orange _ _ A
 12. B/C(grey) _ C(grey)/B
 13. CD / C_D / C_ _ D
 14. Orange _ _ _ Blue
 15. D/Orange _ Orange/D

From point 1 and point 4 and Blue color shirt person is standing below the floor of person A we can say that

Orange _ _ A Blue

As given The person who is wearing blue colour is on ground floor we will get from point 5

D _ Orange _ _ A Blue

As given More than four floors are in between person B and Orange color shirt person

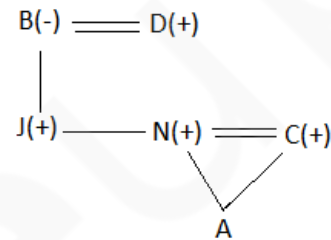
B _ _ _ D _ Orange _ _ A Blue

As given There are as same number of floors between person C and the person who is wearing Orange colour as same as between The person who is wearing orange colour and the person wearing blue color shirt. We will get

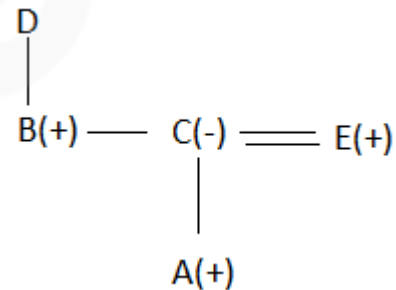
B _ C(grey) _ D E(red) Orange _ _ A Blue

Person	Person wearing shirt color
B	-----
-----	-----
C	Grey
-----	-----
D	-----
E	Red
-----	Orange
-----	-----
-----	-----
A	-----
-----	Blue

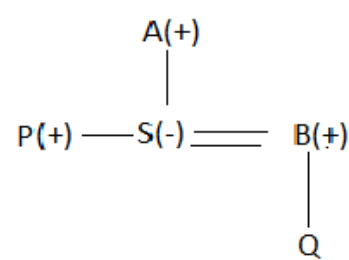
16. Ans. C.



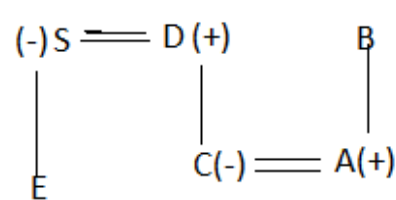
17. Ans. D.



18. Ans. D.



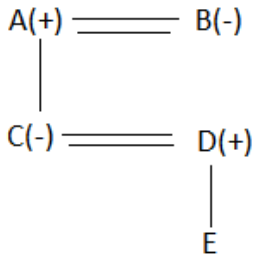
19. Ans. C.



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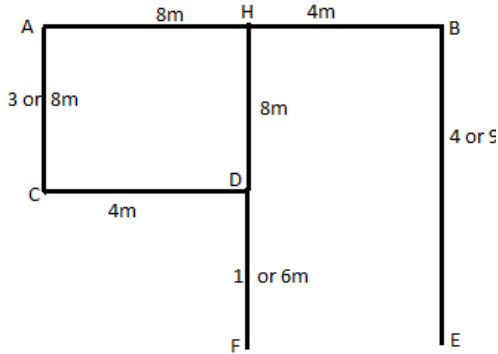
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20. Ans. C.



21. Ans. C.

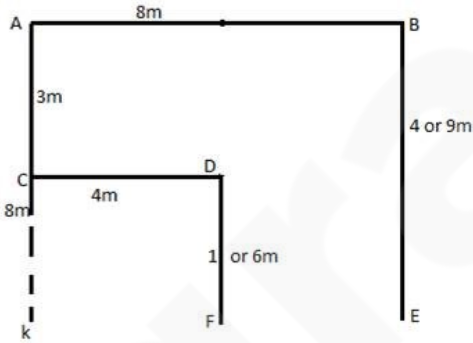
E is east of F, SO AB should be greater than CD, so its possible CD=4m, AB=8m



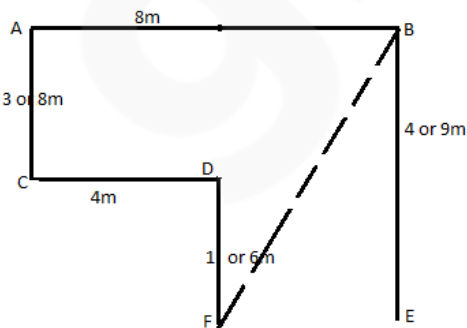
Point H is 8m north of point D, point H west of point B
 $HB = AB - CD = 8 - 4 = 4m$

22. Ans. C.

K is south of C
 $AC - CH = 8 - 3 = 5m$



23. Ans. D.



24. Ans. C.

Steps:

1. There are 7 marriages before the marriage of Ben. There are 2 marriages between the marriage of Mathew and Marten.

Month	10	20
January		
March		
April	Marten	
June		Mathew
September		

2. Mikael and Mickey have marriages in the same month having 31 days. There are more than one marriages before the marriage of Mikael.

Month	10	20
January		
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

3. There is one marriage between the marriages of Mikael and Mason.

Month	10	20
January	Mason	
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

4. There are same number of marriages between Mickey and Mark as between Mathew and Martin. Mark's marriage is not in April. Martin's marriage is not in a month having 31 days.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	
June		Mathew
September		Martin

5. No marriage is there between the marriages of Marcel and Morgan, also their marriages are in different months. Morgan's marriage is exactly between the marriage of Mikael and Matt.



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Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	Morgan
June	Marcel	Mathew
September	Matt	Martin

Marcel got married on 10 June.

25. Ans. D.
Steps:

1. There are 7 marriages before the marriage of Ben. There are 2 marriages between the marriage of Mathew and Marten.

Month	10	20
January		
March		
April	Marten	
June		Mathew
September		

2. Mikael and Mickey have marriages in the same month having 31 days. There are more than one marriages before the marriage of Mikael.

Month	10	20
January		
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

3. There is one marriage between the marriages of Mikael and Mason.

Month	10	20
January	Mason	
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

4.

There are same number of marriages between Mickey and Mark as between Mathew and Martin. Mark's marriage is not in April. Martin's marriage is not in a month having 31 days.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	
June		Mathew
September		Martin

5. No marriage is there between the marriages of Marcel and Morgan, also their marriages are in different months. Morgan's

marriage is exactly between the marriage of Mikael and Matt.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	Morgan
June	Marcel	Mathew
September	Matt	Martin

Marcel and Mathew got married in June.

26. Ans. B.
Steps:

1. There are 7 marriages before the marriage of Ben. There are 2 marriages between the marriage of Mathew and Marten.

Month	10	20
January		
March		
April	Marten	
June		Mathew
September		

2. Mikael and Mickey have marriages in the same month having 31 days. There are more than one marriages before the marriage of Mikael.

Month	10	20
January		
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

3. There is one marriage between the marriages of Mikael and Mason.

Month	10	20
January	Mason	
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

4. There are same number of marriages between Mickey and Mark as between Mathew and Martin. Mark's marriage is not in April. Martin's marriage is not in a month having 31 days.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	
June		Mathew
September		Martin



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5. No marriage is there between the marriages of Marcel and Morgan, also their marriages are in different months. Morgan's marriage is exactly between the marriage of Mikael and Matt.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	Morgan
June	Marcel	Mathew
September	Matt	Martin

Correct combination is April-Morgan-20.

27. Ans. E.

Steps:

1. There are 7 marriages before the marriage of Ben. There are 2 marriages between the marriage of Mathew and Marten.

Month	10	20
January		
March		
April	Marten	
June		Mathew
September		

2. Mikael and Mickey have marriages in the same month having 31 days. There are more than one marriages before the marriage of Mikael.

Month	10	20
January		
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

3. There is one marriage between the marriages of Mikael and Mason.

Month	10	20
January	Mason	
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

4. There are same number of marriages between Mickey and Mark as between Mathew and Martin. Mark's marriage is not in April. Martin's marriage is not in a month having 31 days.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	
June		Mathew
September		Martin

5. No marriage is there between the marriages of Marcel and Morgan, also their marriages are in different months. Morgan's marriage is exactly between the marriage of Mikael and Matt.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	Morgan
June	Marcel	Mathew
September	Matt	Martin

Mark got married on 20 January and Marten got married on 10 April. There are two Marriages between their marriages on 20 January and 10 April.

28. Ans. A.

Steps:

1. There are 7 marriages before the marriage of Ben. There are 2 marriages between the marriage of Mathew and Marten.

Month	10	20
January		
March		
April	Marten	
June		Mathew
September		

2. Mikael and Mickey have marriages in the same month having 31 days. There are more than one marriages before the marriage of Mikael.

Month	10	20
January		
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

3. There is one marriage between the marriages of Mikael and Mason.

Month	10	20
January	Mason	
March	Mikael	Mickey
April	Marten	
June		Mathew
September		

4. There are same number of marriages between Mickey and Mark as between Mathew and Martin. Mark's marriage is not in April. Martin's marriage is not in a month having 31 days.



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Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	
June		Mathew
September		Martin

5. No marriage is there between the marriages of Marcel and Morgan, also their marriages are in different months. Morgan's marriage is exactly between the marriage of Mikael and Matt.

Month	10	20
January	Mason	Mark
March	Mikael	Mickey
April	Marten	Morgan
June	Marcel	Mathew
September	Matt	Martin

Mark got married on 20 January and Mickey got married on 20 March. So, there is only one marriage between their marriages which was held on 10 March.

29. Ans. B.
As Air India is facing a severe shortage of maintenance engineers the technical swag is a common sight. Hence, II is the cause and I is the effect.

30. Ans. B.
The answer is "only second statement follows". Clearly to face the problem of ever-growing population, an effective family program, for people to have small families, is a must. Education further stresses the advantages of having less number of children and the disasters of fast growth in population.

31. Ans. B.
Combining statement I and III

Floor	People
6	P
5	T
4	R
3	S
2	Q
1	U

32. Ans. B.
V > T > R > S > Q > P > W > U

33. Ans. B.
Sport is in india country='HID CAB DAC **INK** PSQ'
"India is a country"= '**INK** HID DAC MFD'
"Patna is dirty town"= 'SOP KIJ **INK** UVX'
"india is a country"=**INK** HID DAC MFD'

34. Ans. E.
If you become a registered user of reservation site, you can perform all related task right from booking of tickets till cancellation of tickets.

35. Ans. C.
If you are registered mobile user, you can perform all online work. Buying tickets with cash is not allowed as you have to pay for the tickets either with your wallet, debit card or credit card.

36. Ans. B.
After seeing the diagram, we conclude that you can buy and cancel the tickets through computer or mobile by becoming a registered user.

37. Ans. C.
While booking your online flight tickets, the customer have to give their details related to age, sex, meals, name and not information on qualification.

38. Ans. D.
Registered user has both the options, either to book his ticket first and then cancel it, or can directly cancel his booked tickets.

39. Ans. A.
From the above information
I. We have eight persons here viz. A, B, C, D, E, F, G & H
II. There are three variables viz. Profession, Car Brand & Floor Number

III. Professions are Doctor, Lawyer, Politician, Engineer, CA, Banker, Entrepreneur and Professor. Car brands are Audi, BMW, Tata, Maruti, Volkswagen, Hyundai, Honda & Renault. Floors are 2nd, 3rd, 4th, 5th, 7th, 8th & 9th floor. Two of them live on the same floor.

So, we have to arrange each person according to their Profession, Car brand and floor number.

IV. A is a banker lives on the 9th floor; C is an engineer lives on the 5th floor.

V. B is a CA, E is an Entrepreneur

VI. Honda car owner lives above all of them i.e. on 9th floor i.e. A banker owns Honda car

VII. The Professor lives on the 8th floor and owns one Hyundai car. Hyundai car owner is H i.e. H is Professor lives on 8th floor and he owns Hyundai car.

VIII. D owns BMW car and lives on the 2nd floor. B, the CA lives one floor above BMW owner i.e. the CA lives on the 3rd floor



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IX. The owner of Volkswagen lives on the 3rd floor i.e. B, the CA owns Volkswagen
 X. E is an Entrepreneur own Renault car
 XI. G is neither a Politician nor a Lawyer i.e. Clearly G is a Doctor
 XII. D owns BMW car lives on 2nd floor and he is not a lawyer i.e. clearly D is a politician
 XIII. So, clearly F is a Lawyer.
 XIV. Since Politician & Doctor live on the same floor, the Doctor lives on the 2nd floor
 XV. The Doctor owns one Audi car. i.e. G owns Audi
 XVI. F neither own Tata nor Honda car i.e. clearly F owns Maruti car; so, clearly C owns Tata car
 XVII. The Maruti owner lives on the 4th floor i.e. F the lawyer lives on the 4th floor; so clearly E, the Entrepreneur lives on the 7th floor

Person	A	B	C	D	E	F	G	H
Profession	Banker	CA	Engineer	Politician	Entrepreneur	Lawyer	Doctor	Professor
Car	Honda	Volkswagen	Tata	BMW	Renault	Maruti	Audi	Hyundai
Floor	9	3	5	2	7	4	2	8

40. Ans. D.
 From the above information
 I. We have eight persons here viz. A, B, C, D, E, F, G & H
 II. There are three variables viz. Profession, Car Brand & Floor Number
 III. Professions are Doctor, Lawyer, Politician, Engineer, CA, Banker, Entrepreneur and Professor. Car brands are Audi, BMW, Tata, Maruti, Volkswagen, Hyundai, Honda & Renault. Floors are 2nd, 3rd, 4th, 5th, 7th, 8th & 9th floor. Two of them live on the same floor. So, we have to arrange each person according to their Profession, Car brand and floor number.
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 V. B is a CA, E is an Entrepreneur
 VI. Honda car owner lives above all of them i.e. on 9th floor i.e. A banker owns Honda car
 VII. The Professor lives on the 8th floor and owns one Hyundai car. Hyundai car owner is H i.e. H is Professor lives on 8th floor and he owns Hyundai car.
 VIII. D owns BMW car and lives on the 2nd floor. B, the CA lives one floor above BMW owner i.e. the CA lives on the 3rd floor
 IX. The owner of Volkswagen lives on the 3rd floor i.e. B, the CA owns Volkswagen
 X. E is an Entrepreneur own Renault car

XI. G is neither a Politician nor a Lawyer i.e. Clearly G is a Doctor
 XII. D owns BMW car lives on 2nd floor and he is not a lawyer i.e. clearly D is a politician
 XIII. So, clearly F is a Lawyer.
 XIV. Since Politician & Doctor live on the same floor, the Doctor lives on the 2nd floor
 XV. The Doctor owns one Audi car. i.e. G owns Audi
 XVI. F neither own Tata nor Honda car i.e. clearly F owns Maruti car; so, clearly C owns Tata car
 XVII. The Maruti owner lives on the 4th floor i.e. F the lawyer lives on the 4th floor; so clearly E, the Entrepreneur lives on the 7th floor

Person	A	B	C	D	E	F	G	H
Profession	Banker	CA	Engineer	Politician	Entrepreneur	Lawyer	Doctor	Professor
Car	Honda	Volkswagen	Tata	BMW	Renault	Maruti	Audi	Hyundai
Floor	9	3	5	2	7	4	2	8

41. Ans. B.
 From the above information
 I. We have eight persons here viz. A, B, C, D, E, F, G & H
 II. There are three variables viz. Profession, Car Brand & Floor Number
 III. Professions are Doctor, Lawyer, Politician, Engineer, CA, Banker, Entrepreneur and Professor. Car brands are Audi, BMW, Tata, Maruti, Volkswagen, Hyundai, Honda & Renault. Floors are 2nd, 3rd, 4th, 5th, 7th, 8th & 9th floor. Two of them live on the same floor. So, we have to arrange each person according to their Profession, Car brand and floor number.
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 VIII. D owns BMW car and lives on the 2nd floor. B, the CA lives one floor above BMW owner i.e. the CA lives on the 3rd floor
 IX. The owner of Volkswagen lives on the 3rd floor i.e. B, the CA owns Volkswagen
 X. E is an Entrepreneur own Renault car
 XI. G is neither a Politician nor a Lawyer i.e. Clearly G is a Doctor



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XII. D owns BMW car lives on 2nd floor and he is not a lawyer i.e. clearly D is a politician

XIII. So, clearly F is a Lawyer.

XIV. Since Politician & Doctor live on the same floor, the Doctor lives on the 2nd floor

XV. The Doctor owns one Audi car. i.e. G owns Audi

XVI. F neither own Tata nor Honda car i.e. clearly F owns Maruti car; so, clearly C owns Tata car

XVII. The Maruti owner lives on the 4th floor i.e. F the lawyer lives on the 4th floor; so clearly E, the Entrepreneur lives on the 7th floor

Person	A	B	C	D	E	F	G	H
Profession	Banker	CA	Engineer	Politician	Entrepreneur	Lawyer	Doctor	Professor
Car	Honda	Volkswagen	Tata	BMW	Renault	Maruti	Audi	Hyundai
Floor	9	3	5	2	7	4	2	8

42. Ans. C.

From the above information

I. We have eight persons here viz. A, B, C, D, E, F, G & H

II. There are three variables viz. Profession, Car Brand & Floor Number

III. Professions are Doctor, Lawyer, Politician, Engineer, CA, Banker, Entrepreneur and Professor. Car brands are Audi, BMW, Tata, Maruti, Volkswagen, Hyundai, Honda & Renault. Floors are 2nd, 3rd, 4th, 5th, 7th, 8th & 9th floor. Two of them live on the same floor.

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VIII. D owns BMW car and lives on the 2nd floor. B, the CA lives one floor above BMW owner i.e. the CA lives on the 3rd floor

IX. The owner of Volkswagen lives on the 3rd floor i.e. B, the CA owns Volkswagen

X. E is an Entrepreneur own Renault car

XI. G is neither a Politician nor a Lawyer i.e. Clearly G is a Doctor

XII. D owns BMW car lives on 2nd floor and he is not a lawyer i.e. clearly D is a politician

XIII. So, clearly F is a Lawyer.

XIV. Since Politician & Doctor live on the same floor, the Doctor lives on the 2nd floor

XV. The Doctor owns one Audi car. i.e. G owns Audi

XVI. F neither own Tata nor Honda car i.e. clearly F owns Maruti car; so, clearly C owns Tata car

XVII. The Maruti owner lives on the 4th floor i.e. F the lawyer lives on the 4th floor; so clearly E, the Entrepreneur lives on the 7th floor

Person	A	B	C	D	E	F	G	H
Profession	Banker	CA	Engineer	Politician	Entrepreneur	Lawyer	Doctor	Professor
Car	Honda	Volkswagen	Tata	BMW	Renault	Maruti	Audi	Hyundai
Floor	9	3	5	2	7	4	2	8

43. Ans. B.

From the above information

I. We have eight persons here viz. A, B, C, D, E, F, G & H

II. There are three variables viz. Profession, Car Brand & Floor Number

III. Professions are Doctor, Lawyer, Politician, Engineer, CA, Banker, Entrepreneur and Professor. Car brands are Audi, BMW, Tata, Maruti, Volkswagen, Hyundai, Honda & Renault. Floors are 2nd, 3rd, 4th, 5th, 7th, 8th & 9th floor. Two of them live on the same floor.

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VI. Honda car owner lives above all of them i.e. on 9th floor i.e. A banker owns Honda car

VII. The Professor lives on the 8th floor and owns one Hyundai car. Hyundai car owner is H i.e. H is Professor lives on 8th floor and he owns Hyundai car.

VIII. D owns BMW car and lives on the 2nd floor. B, the CA lives one floor above BMW owner i.e. the CA lives on the 3rd floor

IX. The owner of Volkswagen lives on the 3rd floor i.e. B, the CA owns Volkswagen

X. E is an Entrepreneur own Renault car

XI. G is neither a Politician nor a Lawyer i.e. Clearly G is a Doctor

XII. D owns BMW car lives on 2nd floor and he is not a lawyer i.e. clearly D is a politician

XIII. So, clearly F is a Lawyer.

XIV. Since Politician & Doctor live on the same floor, the Doctor lives on the 2nd floor



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XV. The Doctor owns one Audi car. i.e. G owns Audi

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Person	A	B	C	D	E	F	G	H
Profession	Banker	CA	Engineer	Politician	Entrepreneur	Lawyer	Doctor	Professor
Car	Honda	Volkswagen	Tata	BMW	Renault	Maruti	Audi	Hyundai
Floor	9	3	5	2	7	4	2	8

44. Ans. B.
Only statement II is the proper course of action. If we act as per statement II, by hacking down the rest of the forest we will only jeopardise the environment and also paper industry. It is only a temporary solution with very adverse future consequences. Planting trees and growing them will take years. By cutting them down and using it again for paper making, we will be facing the same problem again in future. Hence it's better to stop deforestation and use of paper altogether as it is the most ethical and also the profitable way in the long run. So answer is option (b)

45. Ans. C.
The paragraph clearly states that 4% of the moths who do not have ears and are hence deaf have higher maneuverability. Consequently, we can infer that these moths would try to avoid bats by frequent changes in flight direction.

46. Ans. D.
Refer to the following sentences of the first para, 'It comes as no surprise, therefore, that this failure to assume responsibility for child nutrition has left 34 per cent of children in that age group underweight today. There is also a lot of evidence to show that the deprived sections of India's children have low weight even at birth due to the general neglect of women's nutrition and well-being.'
It can be clearly inferred that it is the lack of food provided to the children and the general lack of nourishment and well being of women which affects the potential in them.

47. Ans. C.
Refer to the following sentences of the first para, 'Given the steady growth in real per capita GDP since the 1980s, and the progress made since Independence in overcoming

severe undernourishment, enlightened policy approaches could have brought about a giant leap from 1992-93, when the first NFHS was conducted, ensuring that no child or woman was left behind in the quest for health for all. Evidently, the Indian state has not viewed the situation.'

It is clear from the sentences that an improvement in the nourishment and health levels was expected but the mark has not been reached yet. The other options, though true, do not state the complete problem.

48. Ans. B.
Refer to the following statement of the first para, '39 percent of children under the age of five are underweight giving way to a national crisis.'

49. Ans. D.
Refer to the first and the last statement of the passage, 'It is imperative that the coming data lead to the charting of a new policy course that makes access to nutrition and health a right for all.' and 'They should send out the message that sustained economic growth is not possible without state support to achieve the well-being of the population, especially women and children.'

50. Ans. E.
Deprivation - the lack or denial of something considered to be a necessity.
Accretion - growth or increase by the gradual accumulation of additional layers or matter.
Endowment - a quality or ability possessed or inherited by someone.
Abundance - the state or condition of having a copious quantity of something; plentifulness.
Deficiency - a lack or shortage.

51. Ans. D.
Prosperous - successful in material terms; flourishing financially.
Destitute - extremely poor and lacking the means to provide for oneself.
Depressed - (of a person) in a state of unhappiness or despondency.
Apprentice - a person who is learning a trade from a skilled employer, having agreed to work for a fixed period at low wages
Hence, wealthy is the most similar response.

52. Ans. B.
Imperative - of vital importance; crucial.
Hence, urgent is the most suitable response.
Conjure - make (something) appear unexpectedly or seemingly from nowhere.



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Voluntary - done, given, or acting of one's own free will.

53. Ans. A.
The first line of the second paragraph states, 'It is imperative that the coming data lead to the charting of a new policy course that makes access to nutrition and health a right for all. Asserting this right would require the strengthening of the Integrated Child Development Services scheme in all States, particularly those with a higher proportion of underweight and stunted children.'
54. Ans. D.
Foundational - denoting an underlying basis or principle; fundamental; the beginning or initial thing.
Concluding - referring to an end of something.
Elementary is the same as basic and primary. It means important.
Bellicose - demonstrating aggression and willingness to fight.
Hence, concluding is the most suitable response.
55. Ans. E.
Immunization - the action of making a person or animal immune to infection, typically by inoculation.
Susceptible - exposed to a threat.
Antibody - a protein produced in the blood that fights diseases by attacking and killing harmful bacteria.
Adaptation - the action or process of adapting or being adapted.
Booster - a device for increasing electrical voltage or signal strength.
Vaccine - A vaccine is a substance containing a harmless form of the germs that cause a particular disease. It is given to people, usually by injection, to prevent them getting that disease.
56. Ans. A.
The first sentence conveys that the crowd was driven to something crazy after they saw a seventy percent discount on the products. The best option to fit with this context is 'frenzy' which means 'A state of mental agitation or excitement' Thus option A is the correct answer.
Blitz=> an intensive or sudden military attack.
Cadaver=> Corpse
Animosity=> strong hostility.
Rudiment=> the first principles of (a subject).

57. Ans. A.
From the second sentence, we can extract out that the word in the blanks should mean consciousness of one's own dignity. It should be a synonym of pride with a little difference. Pride is a negative word this implies that the word in blank should also be negative in tone. Thus, vanity is the apt word. Vanity refers to excessive pride in or admiration of one's own appearance or achievements. The word also goes with the context of the first statement.
Option B: Ego doesn't fit with the context of the first statement.
Option C: egoism is an ethical theory that treats self-interest as the foundation of morality. It doesn't seem to fit with the context of the statements. Therefore, this option is less appropriate.
Option D: Humility is a positive word, therefore, this option is eliminated.
Option E: Conceit means excessive pride in oneself but it doesn't seem to fit with the context of the first statement. Therefore, it can't be used.
58. Ans. C.
Statement 1: The word 'contributions' fits well into this statement. It refers to the things that women have done to help others and to improve their own situations as well.
Statement 2: in this statement, the word 'contributions' is based on the work that women did to better their own lives and the lives of other people, despite major obstacles in their way.
Ramifications mean a complex or unwelcome consequence of an action or event.
Accusations mean a charge or claim that someone has done something illegal or wrong.
59. Ans. E.
Refer to the last question of the series.
60. Ans. C.
Refer to the last question of the series.
61. Ans. E.
Refer to the last question of the series.
62. Ans. D.
Refer to the last question of the series.
63. Ans. A.
The central theme of the given sentences is the dependence of agriculture on natural resources. Thus, the opening sentence will be statement E.



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Now, the statement that builds on statement E is statement A which talks about the ways in which the natural resources conserved and efficiently utilized.

Statement C deals with various dimensions related to efficiency in agriculture and thus should follow A.

Statements B and F are interlinked with B preceding F, based on pure logic. Statement B states the detail of AESR map of the Black Soil region, and statement F states the revised numbers of these ASER maps.

Based on the mandatory pairing of BF, the statement about black soil region should come before these two statements. The correct sequence of these three sentences would be DBF.

Correct Sequence: EACDBF

64. Ans. A.
Only part A does not have error.
The error in part B is the verb 'criticise' which needs to be replaced with the noun 'criticism' to make the sentence correct.
The error in part C is the absence of the article 'an' before the adjective 'efficient.' It needs an article before stating the manner.
The error in part D of the sentence is that the verb 'continued' is in incorrect tense (simple past tense) and needs to be replaced with tense in present continuous form (continuing) to make the sentence correct.
65. Ans. B.
In part "A", "Transcendence" is a singular subject thus it will take a singular verb thus "happen" should be changed to "happens".
In part (C) "may still need" should be changed to "may still be needed" as "discipline is needed" thus it should be in passive.
In part "D", "whole" (an adjective) should be replaced with "wholly"(an adverb) because "disappeared" is a verb and an adverb is required to qualify it
There is no error in part "B".
66. Ans. C.
The error in part A is the use of preposition. 'With' should be replaced by "of" because "of" is used for things that make up the set, while "with" is used for things that are contained within the set. The error in part B is the preposition "on" which should be replaced with "in" because "on" is generally used with days, dates, small street names, etc, but "in"

can be used with the names of cities, towns, countries, etc. The error in part D is the use of the singular form of "dimension". Since "sites" is a plural term, the dimension of the "sites" should also be plural.

67. Ans. E.
First statement deals with the interest money paid regularly at a particular rate.
The second sentence deals with the love and desire for a particular thing or a person.
Hence, 'interest' is the most suitable response.
Investment means the action or process of investing money for profit.
Rivet means fix (someone or something) so as to make them incapable of movement.
Engross means to absorb all the attention or interest of.
68. Ans. D.
The use of 'While' implies that something contradictory has been stated in the sentence with respect to the information given. In the first sentence, Henry was a good leader but he had a particular tendency which ran contrary to his goodness. In the second sentence, Sally is being indecisive about her wedding plans.
Rebuff means to turn down or refuse.
Rebut means to deny something by giving reasons it cannot be true.
Recuperate means to obtain something that has been lost, usually one's good health or a financial stake.
Vacillate means to waver between different opinions or actions; be indecisive.
Redivivus means reborn; revived.
Thus option D is the word that fits in the sentences.
69. Ans. C.
A) The statement is about 'any jurisdiction order', thus the use of 'are' is incorrect. Also the use of 'depending' and 'has' is not correct.
B) 'Depending' and 'has' are inappropriate together.
D) 'Two of them' is not very appealing in the context.
E) 'Orders are' should not be used here as the context is in the singular order.
70. Ans. B.
A - 'Prism' is a geometric figure and 'fungi' does not relate to it.
C - 'Carry' is an incorrect word and instead of it 'occupy' should be used.



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- D – Fungi cannot have a place 'of' biological world but 'in' the biological world.
71. Ans. C.
A – Instead of 'lead', the past participle form of verb must be used. 'led' should be used.
B – Plural of time i.e. 'times' should be used.
D – Extinction cannot be 'in' the species, it can be 'of' the species. Here we have an incorrect use of the preposition.
E – Instead of the preposition 'of', 'in' should be used.
72. Ans. B.
Only part B is correct here.
The error in part A of the sentence is the verb 'tell' which needs to be replaced with 'say.'
After the verb 'tell' the subject needs to be mentioned thus cannot be used here.
The error in part C of the sentence is the word 'unemploying'. It needs to be replaced with the noun 'unemployment' to avoid the error of parallelism.
The error in part D of the sentence is the verb 'leads' which is incorrect and needs to be replaced with the verb 'lead' as the subject is plural. The verb must agree with the subject.
73. Ans. E.
All the parts of the given sentence are correct.
74. Ans. C.
Suitable topic for the passage should be "The Hype around Technology Aided Education" as throughout the passage the author has talked about the technological advances and their effects on the education world. The author is quite hopeful about the new innovations involved in this field and is aware of the fact that there is a certain hype around technology.
75. Ans. E.
The second last paragraph opens with the statement that there needs to be a change in the way accreditation is given to the educational institutions. Thus, statement A is correct.
The fourth paragraph concludes with the idea that the old form of classrooms will not survive the test of time and will eventually become obsolete. Thus, statement B is correct.
Statement C seems correct in the given tone but does not find mention in the passage and thus can't be considered correct in the context of the passage.

- Thus, option E is the correct response as it considers both the correct statements.
76. Ans. B.
Statement A can't be deduced from the information mentioned in the passage.
Statement B can be deduced from the discussion in the sixth paragraph.
Statement C can be deduced from the discussion about the student-professor relationship in the fifth and the sixth paragraph.
So, option A is the correct response.
77. Ans. C.
The effects of cheating have been discussed in the last paragraph of the passage and all the options except option C has been mentioned. Thus the correct response is option C.
78. Ans. B.
Statement c has been mentioned at the end of the third paragraph and thus can be considered with reference to the question. So, option B is the correct response.
79. Ans. B.
In the sentence, "heart-pounding" refers to an exciting situation and a negative word shouldn't be used to describe an exciting event, i.e. "dreadful" shouldn't be used as it means terrible. Out of the given options, option B fits correctly if replaced with the given part. Hence, option B is correct.
80. Ans. B.
A- Nature could be revolting but "nature of revolt" does not convey any meaning here.
C- "revolted" must be replaced by "revolting" here, as nature of a person could be revolting but not revolted.
D- "Revolt in her nature" must be replaced by her revolting nature, as it is the girl's revolting nature that is being talked about.
E- "Nature as revolted" must be replaced by "her revolting nature", as nature cannot possibly be revolted.
Hence the correct answer is B.
81. Ans. D.
Defence budget for 2018-19 has been increased by **7.81 per cent** over last year's **Rs 2.74 lakh crore**.

Note:

- In the Union Budget 2018-19, **Rs 2.95 lakh crore** has been earmarked for Defence sector.



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• This accounts for **12.10 percent** of the total Central Government expenditure for the year 2018-19.

82. Ans. E.

The Reserve Bank of India (RBI) will issue the new Rs. 100 banknotes "shortly". The new banknote of Rs. 100 will be in the base color of lavender and will have a motif of Rani Ki Vav – (heritage site located in Gujarat) on the reverse side.

83. Ans. A.

Liquidity Adjustment Facility (LAF) was introduced by RBI during June, 2000 in phases, to ensure smooth transition and keeping pace with technological up gradation. Hence, option A is correct.

84. Ans. B.

Tehran is the **capital** of **Iran** with a population of around 8.4 million in the city and 14 million in the wider metropolitan area.

Note:-Tehran is **Iran's largest city** and urban area, the largest city in **Western Asia**.

85. Ans. C.

The Securitisation and Reconstruction of Financial Assets and Enforcement of Securities Interest Act, 2002 (also known as the SARFAESI Act) is an Indian law. It allows banks and other financial institution to auction residential or commercial properties to recover loans.

86. Ans. C.

External Affairs Minister Sushma Swaraj will embark on a two-day visit to Manama to co-chair the second-High Joint Commission meeting. Manama is the capital of Bahrain. The currency of Bahrain is Dinar.

87. Ans. A.

The Hongkong and Shanghai Banking Corporation (HSBC) has appointed Surendra Rosha as Chief Executive Officer for HSBC India. The appointment is subject to regulatory approvals. Rosha, currently HSBC's Head of Financial Institutions Group (FIG) for Asia-Pacific.

88. Ans. A.

Price for which the currency of a country can be exchanged for another country's currency. Factors that influence exchange rate include (1) interest rates, (2) inflation rate, (3) trade balance, (4) political stability, (5) internal harmony,

(6) Difficult degree of transparency in the conduct of leaders and administrators, (7) general state of economy, and (8) quality of governance.

89. Ans. D.

Yoweri Museveni is a Ugandan politician who has been the President of Uganda since 1986.

The Republic of Uganda is a landlocked country in East Africa.

90. Ans. D.

China has established an unmanned automatic weather observation station in Tibet near Arunachal Pradesh border to provide weather support to its army and to assist in the operation of aircraft and missiles in case of "regional live-fire conflicts". The station can observe six factors - air temperature, air pressure, wind speed, wind direction, humidity and precipitation.

91. Ans. C.

India's squash player Deepika Pallikal has been appointed as representative of Asia in the prestigious Athlete Advisory Commission of the Commonwealth Games Federation (CGF).

So, option C is correct.

92. Ans. D.

Giddha dance is associated with Punjab. It is the counterpart of male Bhangra dance, only women participates in this dance.

93. Ans. C.

Indian Railways organized a program on ethics in public administration and launched "Mission Satyanishtha" in a one-day event organized at National Rail Museum, New Delhi. Mission Satyanishtha aims at sensitizing all the railway employees about the need to adhere to good ethics and to maintain high standards of integrity at work.

94. Ans. A.

Strategic Trade Authorization -1 (STA) allows licensing in connection with exports from US government authorities, through which certain items can be exported under the prescribed conditions without transaction-specific license. The United States made India easy to export control for the sale of high technology products by incorporating it into the STA-1 country list, giving it equal access to NATO partners - Australia, Japan and South Korea.



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95. Ans. C.
The Reserve Bank of India modified the norms for setting up International Financial Services Centres (IFSC) Banking Units (IBUs) by banks in IFSCs.
* According to the new norms - the parent bank will be required to provide and maintain at all times a minimum capital of **\$20 million** or equivalent in any foreign currency to its IBU.
* Also, the parent bank will be required to provide a Letter of Comfort for extending financial assistance, as and when required, in the form of capital/liquidity support to IBU.
96. Ans. A.
Assamese film "Xhoihobote Dhemalite" ("Rainbow Fields") bagged three top awards at the 3rd Love International Film Festival here including best movie. In addition to the best film, the award for Best Actress in the festival, Dipannita Sharma and Best Music Award, is won by Anurag Saikia. Semi-autobiographical in nature, "Xhoihobote Dhemalite" (Rainbow Fields) is inspired by true incidents from director Bidyut Kotoky's life.
97. Ans. E.
The Ministry of Culture, Government of India has introduced a new scheme namely 'Seva Bhoj Yojna' with a total outlay of Rs. 325.00 Crores for Financial Years 2018-19 and 2019-20. The scheme envisages to reimburse the Central Government share of Central Goods and Services Tax (CGST) and Integrated Goods and Service Tax (IGST) so as to lessen the financial burden of such Charitable Religious Institutions who provide Food/Prasad/Langar (Community Kitchen)/Bhandara free of cost without any discrimination to Public/Devotees.
98. Ans. E.
Ferrari's Sebastian Vettel dominated the Canadian Grand Prix to retake the championship lead as Lewis Hamilton could finish only fifth for Mercedes.
It was Vettel's 50th career Formula One victory.
Mercedes' Valtteri Bottas finished second and Red Bull's Max Verstappen third
99. Ans. C.
NABARD sanctions Rs 772 cr for water projects in Haryana. This project will supply water to 256 villages and 72 hamlets.

100. Ans. C.
The National Health Agency (NHA) is a top body under the Ministry of Health and Family Welfare for implementation of Ayushman Bharat -National Health Protection Mission (AB-NHPM) and Common Service Center (CSC) scheme. The purpose of the Memorandum of Understanding is to provide information and eligibility verification services to the beneficiaries especially in the remote areas. The purpose of this MOU is to provide information and eligibility verification services to the beneficiaries especially in the remote areas with the help of the Ministry of Electronics and Information Technology.
101. Ans. B.
The MUDRA bank will classify its clients into three categories and the maximum allowed loan sums will be based on the following category:
- Shishu (शिशु): Allowed loans up to ₹50,000
 - Kishore (किशोर): Allowed loans up to ₹5 lakh
 - Tarun (तरुण): Allowed loans up to ₹10 lakh
102. Ans. B.
Deepak Parekh has been reappointed as the non-executive director on the board of the country's largest mortgage lender HDFC.
103. Ans. C.
China has successfully tested its first cutting-edge hypersonic aircraft which could carry nuclear warheads and penetrate any current generation anti-missile defence systems.
The Xingkong-2 (Starry Sky-2) was launched in a target range located in Northwest China, the state-run China Academy of Aerospace Aerodynamics (CAAA).
104. Ans. E.
IFAD is an international financial institution and a specialised agency of the United Nations dedicated to eradicating poverty and hunger in rural areas of developing countries.
- Gilbert Houngbo is the head of IFAD.
 - IFAD HQ is in – **Rome, Italy**
105. Ans. C.
Veteran screenplay writer Jalees Sherwani has passed away in Mumbai, Maharashtra. He had penned lyrics for several Salman Khan films like "Dabangg", "Wanted" and "Tere Naam".



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106. Ans. A.
Cheque and Demand Draft are defined under section 6 Negotiable Instruments Act, 1881. A Negotiable Instrument means a promissory note, bill of exchange, demand draft or cheque payable either to order or to bearer.
107. Ans. A.
The NITI Aayog launched a global mobility hackathon "Move Hack" to crowdsource future mobility solutions for India. Move Hack is focused on 10 themes and structured over three legs: online, followed by Singapore leg, and the finals in New Delhi.
108. Ans. A.
The International Day of Cooperatives is observed across the world every year on 7th July to promote the co-operative model. It contains aspects of sustainable development at its core and is based on ethical values and principles. The theme of 2018 is 'Sustainable societies through cooperation'.
109. Ans. C.
In third Bi-monthly Policy Statement, The six-member Monetary Policy Committee (MPC) of the Reserve Bank of India increased the policy repo rate by 25 basis point to 6.5% under the Liquidity Adjustment Facility (LAF). RBI also increased the average inflation projection for the second half of the year to 4.8% from 4.7% in June.
110. Ans. C.
The 3rd edition of the Kabir festival 2018, that celebrates the spirit of 15th-century mystic poet Kabir, will be organized in Varanasi in Uttar Pradesh on November 16. The annual festival conceived by the Mahindra group and Teamwork Arts, will feature a two-day programme of music, literature, talks and city explorations.
111. Ans. D.
Egypt beat England to win boy's title at WSF-World Junior Squash team championship in Chennai. The Czech Republic and US finished third and secured the bronze medal.
112. Ans. D.
Every member country should do monetary contributions to International Monetary Fund (IMF) which acts as base fund for lending purpose to members. Out of the total **quota 25% should be** paid in the form of foreign currency or gold. This is called as reserve tranche or gold tranche. The remaining 75% can be in domestic currencies.
113. Ans. A.
Negotiable Warehouse Receipt (NMR) system was officially launched in 2011. NWR issued by the authorized warehouses could help the farmers to obtain loans and therefore, prevent the distress to the farmers in cases of crop failure.
114. Ans. A.
Green Park is situated in the Kanpur city, in the state of Uttar Pradesh. It is a multi-purpose stadium and is the only stadium that has regularly hosted international cricket matches in both Test and one day format.
115. Ans. E.
In 2018-19 budget, 112403 crores INR have been allocated to the department of rural development.
116. Ans. E.
The National Green Tribunal (NGT) has formed a monitoring committee on the cleaning of the Yamuna and directed it to submit an action plan on the issue. The green panel has appointed B S Sajwan (retired expert member) and Shailaja Chandra (former Delhi chief secretary) as members of the committee.
117. Ans. E.
India's Ministry of Finance has imposed a 25% safeguard duty on imports of solar cells and modules from Malaysia and China between July 30, 2018, and July 29, 2019. The safeguard duty on imports would be applicable for two years. It would be reduced in the second year to 20% for six months from July 30, 2019, and would be charged at 15% for the next six months.
118. Ans. B.
Shri Thaawarchand Gehlot, Union Minister for Social Justice & Empowerment attended the Global Disability Summit held in London on 24th July 2018. The ideal of the conference was to strengthen the commitment of the country's leaders towards disabilities.
119. Ans. C.
Regional Rural Banks (RRBs) were established in 1975 under the provisions of the Ordinance promulgated on the 26th September 1975 and followed by Regional Rural Banks Act, 1976 with a view to develop the rural economy and to create a supplementary channel to the 'Cooperative Credit Structure'



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with a view to enlarge institutional credit for the rural and agriculture sector.

120. Ans. B.

Factor Cost –

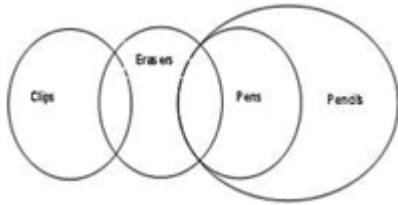
All the cost incurred up to point of final goods being removed from factory. Market price – value of goods and services after it leaves the factory (as soon as goods leave factory indirect tax get levied thus increasing value of goods) and become available to consumer after subsidy allowed by the government.

Market Price = Factor Cost + Net Indirect Taxes

Factor Cost + [(Product Taxes + Production Taxes) – Subsidies]

Note : Product Taxes = GST, Customs etc.
Production Taxes = factory licenses, pollution Tax, Local Authority Tax, Factory Rates & Taxes.

121. Ans. B.



122. Ans. D.

State	Gender	Only Cricket	Only Football	Only Hockey	Cr + Ft	Cr + Hk	Ft + Hk	Hk + Cr + Ft
MP (45 % of 2400) 1080	Boy (B/G = 5 : 4) 600	(16%) 96	(15%) 90	(8%) 48	(16%) 96	(15%) 90	(10%) 60	(Remaining) (20%) 120
	Girl (B/G = 5 : 4) 480	(20%) 96	(10%) 48	(10%) 48	(20%) 96	(20%) 96	(10%) 48	(Remaining) (10%) 48
UP (Remaining) (55 % of 2400) 1320	Boy (B/G = 4 : 7) 480	(20%) 96	(15%) 72	(5%) 24	(15%) 72	(25%) 120	(10%) 48	(Remaining) (10%) 48
	Girl (B/G = 4 : 7) 840	(25%) 210	(12%) 101	(8%) 67	(15%) 126	(10%) 84	(15%) 126	(Remaining) (15%) 126

Girls from MP play only either Cricket or Football = $96 + 48 = 144$

Girls from UP play only either Cricket or Football = $210 + 101 = 311$

Girls from MP and UP play only either Cricket or Football = $144 + 311 = 455$

Hence, only 455 Girls from MP and UP play either Cricket or Football

123. Ans. E.

State	Gender	Only Cricket	Only Football	Only Hockey	Cr + Ft	Cr + Hk	Ft + Hk	Hk + Cr + Ft
MP (45 % of 2400) 1080	Boy (B/G = 5 : 4) 600	(16%) 96	(15%) 90	(8%) 48	(16%) 96	(15%) 90	(10%) 60	(Remaining) (20%) 120
	Girl (B/G = 5 : 4) 480	(20%) 96	(10%) 48	(10%) 48	(20%) 96	(20%) 96	(10%) 48	(Remaining) (10%) 48
UP (Remaining) (55 % of 2400) 1320	Boy (B/G = 4 : 7) 480	(20%) 96	(15%) 72	(5%) 24	(15%) 72	(25%) 120	(10%) 48	(Remaining) (10%) 48
	Girl (B/G = 4 : 7) 840	(25%) 210	(12%) 101	(8%) 67	(15%) 126	(10%) 84	(15%) 126	(Remaining) (15%) 126

Boy's from MP play all three sport = 120

Girl's from MP play all three sport = 48

Boys's from UP play all three sport = 48

Girl's from UP play all three sport = 126

Total player play all three sport = $120 + 48 + 48 + 126 = 342$

Required % = $(342 - 126) / 126 \times 100 = 171.42\%$

124. Ans. C.

State	Gender	Only Cricket	Only Football	Only Hockey	Cr + Ft	Cr + Hk	Ft + Hk	Hk + Cr + Ft
MP (45 % of 2400) 1080	Boy (B/G = 5 : 4) 600	(16%) 96	(15%) 90	(8%) 48	(16%) 96	(15%) 90	(10%) 60	(Remaining) (20%) 120
	Girl (B/G = 5 : 4) 480	(20%) 96	(10%) 48	(10%) 48	(20%) 96	(20%) 96	(10%) 48	(Remaining) (10%) 48
UP (Remaining) (55 % of 2400) 1320	Boy (B/G = 4 : 7) 480	(20%) 96	(15%) 72	(5%) 24	(15%) 72	(25%) 120	(10%) 48	(Remaining) (10%) 48
	Girl (B/G = 4 : 7) 840	(25%) 210	(12%) 101	(8%) 67	(15%) 126	(10%) 84	(15%) 126	(Remaining) (15%) 126

Total Girls from MP = 480

Total Girls from UP = 840

Total no. of Girls = $840 + 480 = 1320$

Girls from MP play Hockey = $480 - (96 + 48 + 96) = 240$

Girls from UP play Hockey = $840 - (210 + 101 + 126) = 403$

Hence, Total Girl who play Hockey = $240 + 403 = 643$

% of girls who play hockey out of total girls = $643 / 1320 \times 100 = 48.71\%$



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125. Ans. E.

State	Gender	Only Cricket	Only Football	Only Hockey	Cr + Ft	Cr + Hk	Ft + Hk	Hk + Cr + Ft
MP (45% of 2400) 1080	Boy (B/G = 5 : 4) 600	(16%) 96	(15%) 90	(8%) 48	(16%)) 96	(15%)) 90	(10%)) 60	(Remaining) (20%) 120
	Girl (B/G = 5 : 4) 480	(20%) 96	(10%) 48	(10%) 48	(20%)) 96	(20%)) 96	(10%)) 48	(Remaining) (10%) 48
UP (Remaining) (55% of 2400) 1320	Boy (B/G = 4 : 7) 480	(20%) 96	(15%) 72	(5%) 24	(15%)) 72	(25%)) 120	(10%)) 48	(Remaining) (10%) 48
	Girl (B/G = 4 : 7) 840	(25%) 210	(12%) 101	(8%) 67	(15%)) 126	(10%)) 84	(15%)) 126	(Remaining) (15%) 126

Boys from UP do not play football = $480 - 72 - 72 - 48 - 48 = 240$

Girls from UP do not play Football = $840 - 101 - 126 - 126 - 126 = 361$

Total player from UP do not play football = $240 + 361 = 601$

Girls in UP who play only cricket = 210

Required % = $601 - 210 / 210 \times 100 = 186.19\%$

126. Ans. B.

Let after 2 years amount invested by P, Q and R is '3x', 'x' and '5x' respectively.

Ratio of share of P and Q = $[(900 \times 2) + (900 + 3x) + (900 + 3x - 200)] : [(1300 \times 2) + (1300 + x) + (1300 + x - 400)] = 4 : 5$

$\Rightarrow 17000 + 30x = 19200 + 8x$

$\Rightarrow x = 100$

Ratio of share of P and R = $[(900 \times 2) + (900 + 3x) + (900 + 3x - 200)] : [(2000 \times 2) + (2000 + 5x) + (2000 + 5x - 1000)] = 4 : a$

$\Rightarrow a = 4 \times 7000 + 10x / 3400 + 6x$

$\Rightarrow a = 8$

Total profit earned from the business

= $1200 \times 4 + 5 + 8/4 = \text{Rs. } 5100$

Hence, option (B) is correct.

127. Ans. D.

Total number of houses = 400

2 Room houses = 135, so

4 room houses = 265

4 room houses that have a TV = 110

22 % percent of all the houses with TV have cable connection, which implies

$22\% = 22/100 = 11/50$ of all the houses with TV
Which means that the number of houses with TV must be a multiple of 50.

How many 2 room houses can we add to 110 4 room houses to get a multiple of 50? We could add 40, or 90, but after that, we would run out of 2 room houses. These leaves two possibilities for the total houses with TV:

If a total of 150 houses have TV, then 22% means 33 of them also have cable connection.

If a total of 200 houses have TV, then 22% or 44 of them also have cable connection.

Then next we see, "25% of all the houses with both TV and cable connection are 2 room houses, which means

$25\% = 25/100 = 1/4$ of all the houses with both TV and cable connection

This means that number of houses with both TV and cable connection must be divisible by 4. Of the two possibilities, only second satisfies this. i.e. 44 is divisible by 4

Hence, we can conclude that total houses with TV = 200 (110 four room houses and 90 two room houses)

22% of these also have cable connection = 44 houses

25% of all houses with both TV and cable connection are two room = 11.

Thus, the number of four door houses with both TV and cable connection are

$44 - 11 = 33$

128. Ans. C.

- Lets marked price of note book for both shop = 100x Rs.

Selling price of note book on shop A

$$= 100x \times \frac{(100-20)}{100}$$

= 80xRs.

Given, $80x = 400$

$x = 5$

marked price of note book = 500 Rs.

ATQ—

Selling price of note book on shop B=

Market price of notebook

$$\times \frac{(100-d)}{100} \times \frac{(100-20)}{100}$$

= selling price of notebook A+50

$$500 \times \frac{(100-d)}{100} \times \frac{(100-20)}{100} = 400 + 50$$

$D = 500 - 450/4$

$D = 12.5$



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129. Ans. C.

Let price of type M and type N pulse is $3x$ and x respectively.

Total quantity of mixture = 60kg

Part first = $40/100 \times 60 = 24$ kg

Part second = $60 - 24 = 36$ kg

First part M pulse = $24 \times 4/6 = 16$ kg

First part N pulse = $24 - 16 = 8$ kg

In second M pulse = $36 \times 4/6 = 24$ kg

Second N pulse = $36 - 24 = 12$ kg

Total cost price = $(16 + 24) \times 3x + (8 + 12) \times x = 140x$

Selling price of first part = 90% of $(16 \times 3x) + (8 \times x) = 50.4x$

Selling price of 2nd part = 110% of $(24 \times 3x) + (12 \times x) = 92.4x$

Total selling price = $50.4x + 92.4x$

= $142.8x$

Profit, $142.8x - 140x = 70$

$2.8x = 70$

$x = 25$

Cost price of M pulse = $25 \times 3 = \text{Rs. } 75$

130. Ans. C.

C.I at 15% for two years = $15 + 15 + 15 \times 15/100$

= $30 + 2.25$

= 32.25%

C.I at 20% for two years = $20 + 20 + 20 \times 20/100$

= $40 + 4$

= 44%

ATQ-

$$\frac{Y \times 25 \times 2}{100} + \frac{(Y+200) \times 32.5}{100} + \frac{(Y+600) \times 44}{100} = 1591$$

$$50y + 32.5y + 44y = (1591 - 264 - 65) \times 100$$

$$126.5y = 126500$$

$$Y = 126500/126.5 = 1000$$

Sum invested in scheme C = $1000 + 600 = 1600$

131. Ans. D.

The population of village C in 2015

$$= 18000 \times \frac{10}{100} = 1800$$

The population of village C in 2017 = 1800

In year 2015,

Illiterates

$$= 18000 \times \frac{40 \times 16}{100 \times 100} = 1152$$

$$\text{Literates} = 1800 - 1152 = 648$$

In year 2017,

Literates = $648 + x$

Illiterates = $1152 - x$

According to question,

$$648 + x = (1152 - x) \times \frac{170}{100}$$

$$\Rightarrow 6480 + 10x = 19584 - 17x$$

$$\Rightarrow 27x = 13104 \Rightarrow x = 485$$

132. Ans. D.

Population of village D

$$= 18000 \times \frac{16}{100} = 2880$$

Illiterates

$$= 18000 \times \frac{40}{100} \times \frac{20}{100} = 1440$$

$$\text{Literates} = 2880 - 1440 = 1440$$

$$\text{Population of village E} = 1800 \times \frac{30}{100} = 5400$$

$$\text{Illiterates} = 18000 \times \frac{40}{100} \times \frac{24}{100} = 1728$$

$$\text{Literates} = 5400 - 1728 = 3672$$

Difference of illiterates = $1728 - 1440 = 288$

Difference of literates = $3672 - 1440 = 2232$

Required percentage

$$= \frac{288}{2232} \times 100 \approx 13\%$$

133. Ans. B.

In village D,

$$\text{Illiterates} = 18000 \times \frac{40}{100} \times \frac{20}{100} = 1440$$

$$\text{Males} = 1440 \times \frac{5}{8} = 900$$

$$\text{Females} = 1440 \times \frac{3}{8} = 540$$

According to question,

$$\frac{900 - 1.25x}{540 - x} = \frac{5}{2}$$

$$\Rightarrow 1800 - 2.5x = 2700 - 5x$$

$$\Rightarrow 2.5x = 900 \Rightarrow x = 360$$

134. Ans. C.

Illiterates in village D, F and G = $1910 \times 3 = 5730$

Illiterates in village F and G = $5730 - 1440 = 4290$

Let the populations of F and G be $4x$ and $5x$.

According to question,

$$4x \times \frac{40}{100} + 5x \times \frac{30}{100} = 4290$$

$$\Rightarrow 160x + 150x = 429000$$

$$\Rightarrow 310x = 429000$$

$$\Rightarrow x = 1384$$

Total population of village F and G = $9x$

$$= 9 \times 1384 = 12456$$



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135. Ans. D.
Population of village A

$$= 18000 \times \frac{20}{100} = 3600$$

Males

$$= 3600 \times \frac{17}{30} = 2040$$

literate males

$$= 2040 - 1000 = 1040$$

136. Ans. E.

As because the profit is not given in any statement, we can't find the share of profit of A.

137. Ans. D.

From I,

$$150 = 15000 \times \frac{r^2}{10000}$$

Or, $r^2 = 100$

Or, $r = 10\%$

$$SI = \frac{15000 \times 2 \times 10}{100} = 3000$$

From II,

Interest paid by him in 3 years = $19500 - 15000 = 4500$

Or interest paid by him in 2 years

$$= \frac{45000}{3} \times 2 = 3000$$

From III,

$$37.5 = 15000 \times \frac{r^2}{10000}$$

Or, $r^2 = 25$

Or, $r = 5\%$

$$SI = \frac{15000 \times 5 \times 2}{100} = 1500$$

Hence, we can find the answers from either I or II or III.

138. Ans. E.

From I statement we cannot calculate the average age of family as we do not know the number of family member

From II statement alone we can't,

on combining both statements, we can calculate the average age of the family at the time of the birth

So, Current age $\rightarrow 35 \times 10 = 350$

Five years ago - $350 - 50 = 300 / 9 = 100 / 3$ Average age

139. Ans. A.

From I equation. \rightarrow

Let the salary of shyam $-X$

So Arun salary is $5000 + X$

Total salary $\rightarrow 5000 + 2X$

$$5/8 * (5000 + 2X) = 5000 + X$$

So, from this equation we can calculate the arun salary.

But from II equation we cannot calculate anything. So A is the right choice.

140. Ans. A.

From I st statement \rightarrow

$$C = a + 4$$

It is only possible when a, b, c are consecutive odd integer for ex $\rightarrow 1, 3, 5$ & $15, 17, 19$

And From II statement \rightarrow

B is the average of C but this is possible when $\rightarrow 1, 5, 9$ and $1, 3, 5$ both time so from This statement we cannot tell that a, b, c are consecutive odd integer

So, A is the correct choice

141. Ans. C.

$$\text{Work done by R in one day} = \frac{19}{180} - \frac{1}{20} = \frac{1}{18}$$

The efficiency of T is 25% less than R then,

$$\text{Work done by T} = \frac{18 \times 4}{3} = 24 \text{ days}$$

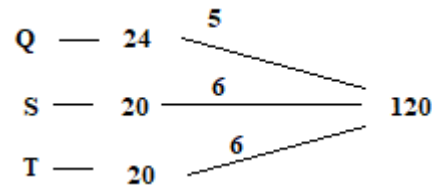
Work done by P, R and T in one day

$$= \frac{1}{20} + \frac{1}{18} + \frac{1}{24} = \frac{15 + 20 + 24}{360} = 6 \frac{42}{53} \text{ days}$$

142. Ans. D.

$$\text{Work done by S} = \frac{34 \times 10}{17} = 20 \text{ days}$$

Work 'A' done by all in 2 days = (Q+T)'s one day work + (S)'s one day work



Total work = LCM of number of days taken by Q, S and T i.e. 120 units.

Work done by Q, S and T in 2 days = $5 + 6 + 6 = 17$ units

i.e. $17 \times 7 = 119$ units work done by all in 14 days.

Remaining work = $120 - 119 = 1$ unit

1 unit is done by Q and T (because they started the work) in $1/11$ days

$$\therefore \text{Total Number of days} = 14 + \frac{1}{11} = 14 \frac{1}{11} \text{ days}$$

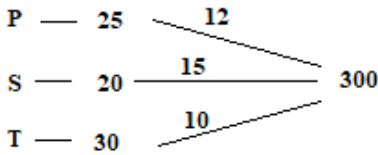
143. Ans. E.

Total Work = 300 units



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1/3rd of work 'B' = $300 \times \frac{1}{3} = 100$ units
 100 units work done by S and T in = $\frac{100}{25} = 4$ days
 Remaining work = $300 - 100 = 200$
 P's 6 days' work = $12 \times 6 = 72$ units
 Again, Remaining Work = $200 - 72 = 128$ units
 128 units work done by T in = $\frac{128}{10} = 12.8$ days
 Total days = $4 + 12.8 + 6 = 22.8$ days
 144. Ans. D.

$$\text{Work done by Q in one day} = \frac{9}{100} - \frac{1}{25}$$

$$= \frac{9 - 4}{100} = \frac{5}{100} = \frac{1}{20}$$

$$\text{Work done by T in one day} = \frac{1}{12} - \frac{1}{30} = \frac{1}{20}$$

$$\text{Work done by Q and T together in one day} = \frac{1}{20} + \frac{1}{20} = \frac{1}{10}$$

∴ Both Q and T together take 10 days to finish the work 'C'.

145. Ans. A.

Let S and T finished the work 'E' in a and b days respectively. Then,

$$(S+T)\text{'s one day work} = \frac{1}{a} + \frac{1}{b} = \frac{2}{15} \text{ ----- (i)}$$

From the question, we know that if S completes half the job working alone and T takes over and completes the next half, they will take 20 days.

$$\text{Then, } \frac{a}{2} + \frac{b}{2} = 20$$

$$\text{Or, } \Rightarrow a+b=40 \text{ or } a=40-b \text{ ----- (ii)}$$

From (1) and (2) we get,

$$\frac{1}{40-b} + \frac{1}{b} = \frac{2}{15}$$

$$\Rightarrow 600 = 2b(40-b)$$

$$\Rightarrow 600 = 80b - 2b^2$$

$$\Rightarrow b^2 - 40b + 300 = 0$$

$$\Rightarrow (b-30)(b-10) = 0$$

$$\Rightarrow b = 30 \text{ or } b = 10.$$

If $b = 30$, then $a = 40 - 30 = 10$ or

If $b = 10$, then $a = 40 - 10 = 30$.

As S is more efficient than T, he will take lesser time to do the job alone. Hence S will take only 10 days and T will take 30 days.

146. Ans. E.

$$6X^4 + 7X^2 + 1 = 0$$

$$\text{Let } x^2 = t, \text{ then } 6X^4 + 7X^2 + 1 = 0 \Rightarrow 6t^2 + 7t + 1 = 0$$

$$6t^2 + 6t + t + 1 = 0$$

$$6t(t+1) + (t+1) = 0$$

$$(6t+1)(t+1) = 0$$

$$t = -1, -1/6$$

$$\mathbf{x^2 = t = -1, -1/6}$$

We can't find the real roots for above equation in x. The equation $6X^4 + 7X^2 + 1 = 0$ will have imaginary roots.

$$Y^2 + 5Y + 4 = 0$$

$$Y^2 + Y + 4Y + 4 = 0$$

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

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

$$\mathbf{Y = -1, -4}$$

The relationship between x & y can't be determined because we are not able to find the real values of x.

147. Ans. E.

$$3X^2 + 9X + 7.5 = 0.75$$

$$3X^2 + 9X + 7.5 - 0.75 = 0$$

$$3X^2 + 9X + 6.75 = 0$$

$$X^2 + 3X + 2.25 = 0$$

$$X^2 + 3X + 9/4 = 0$$

$$(X + 3/2)^2 = 0$$

$$X = -3/2, -3/2$$

$$5Y^2 + 18Y = 0$$

$$Y(5Y + 18) = 0$$

$$Y = 0, -18/5$$

Relationship doesn't exist.

148. Ans. E.

$$2X^2 + 10X - 12 = 0$$

$$X^2 + 5X - 6 = 0$$

$$X^2 + 6X - X - 6 = 0$$

$$X(X+6) - 1(X+6) = 0$$

$$(X+6)(X-1) = 0$$

$$X = 1, -6$$

$$4Y^2 - 12Y - 16 = 0$$

$$Y^2 - 3Y - 4 = 0$$

$$Y^2 - 4Y + Y - 4 = 0$$

$$Y(Y-4) + 1(Y-4) = 0$$

$$(Y-4)(Y+1) = 0$$

$$Y = -1, 4$$

Relationship doesn't exist.

149. Ans. A.

$$X^2 + 15X + 56 = 0$$

$$X^2 + 7X + 8X + 56 = 0$$

$$X(X+7) + 8(X+7) = 0$$

$$(X+7)(X+8) = 0$$

$$X = -7, -8$$

$$Y^2 + 22Y + 117 = 0$$

$$Y^2 + 9Y + 13Y + 117 = 0$$

$$Y(Y+9) + 13(Y+9) = 0$$



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$$(Y+9)(Y+13) = 0$$

$$Y = -9, -13$$

$$X > Y$$

150. Ans. A.

$$4x + 6y = 18$$

$$12x + 18y = 54 \dots \text{Eq1}$$

$$3x + 10y = 21$$

$$12x + 40y = 84 \dots \text{Eq2}$$

$$\text{Eq2} - \text{Eq1}$$

$$22y = 30$$

$$Y = 30/22 = 15/11$$

$$X = \frac{54 - 18 * \frac{15}{11}}{12} = 27/11$$

$$x > y$$

151. Ans. D.

per minute fill by both pipes = $1/40 + 1/60 = 1/24$

So time taken by both the pipes together to fill the tank = 24 min

After closing the outlet pipe tank is filled in 12 minutes

Tank filled in last 12 min = $1/24 \times 12 = 1/2$

Tank filled in first 24 minutes should be = $1 - 1/2 = 1/2$

Let the outlet pipe empty the tank in = x min

$$\text{ATQ} = 24/24 - 24/x = 1/2$$

$$X = 48$$

152. Ans. E.

Time taken by Rajveer = $2t/x$

ATQ-

$2t/x$ should be equal to $3t/1.2x$

Let Rajveer slow his speed by a%

$$\frac{2t}{\left(1 - \frac{a}{100}\right)x} = \frac{3t}{1.2x}$$

$$2.4 = 3(1 - a/100)$$

$$0.8 = 1 - a/100$$

$$A = 20\%$$

Rajveer should slow his speed by 20% to reach at the same time that of Raghav.

153. Ans. A.

We know that there is no speed of current in lake

Lets speed of boat N in still water = x km/h

And speed of boat M in still water = $1.5x$ km/h

If boat M did not loss time, it would reach one hour earlier

So,

$$\frac{81}{x} - \frac{81}{1.5x} = \frac{150}{60}$$

$$81/x - 54/x = 2.5$$

$$X = 27/2.5$$

$$X = 10.8 \text{ km/h}$$

Speed of boat M = $1.5 * 10.8 = 16.2$ km/h

Lets boat takes T hour in cover distance in downstream = $81/16.2 * 1/2$

$$= 10 \text{ hours}$$

154. Ans. B.

Let the ages of daughter and son 5 years hence be $7x$ and $6x$

So their present age will be $7x - 5$ and $6x - 5$

And let Poorvi and their husband present age will be p and h

ATQ

$$p - 8 = 13x - 10$$

$$h = p + 7$$

$$h = 3(6x - 5)$$

After solving these equations

$$x = 4$$

So the present age of daughter will be = $7x - 5$

$$= 7 * 4 - 5 = 23 \text{ years}$$

155. Ans. C.

Let cost price = Rs x

According to question-

$$x \left(\frac{100+p}{100} \right) = 696 \dots \dots \dots (i)$$

Now,

$$x \left(\frac{100+p+25}{100} \right) = 841 \dots \dots \dots (ii)$$

Dividing equation (ii) by equation (i)

$$x \frac{(125+p)}{100} / x \frac{(100+p)}{100} = 841/696$$

$$\frac{125+p}{100+p} = 841/696$$

$$P = 20\%$$

156. Ans. C.

lets alpa takes $3x$ days simaran takes $4x$ days and ruchi takes $6x$ days

Efficiency of alpa, simaran, ruchi s $4x$, $3x$ and $2x$ unit/day

ATQ-

Total work = $(\text{alpa} + \text{ruchi}) * 10 + (\text{alpa} + \text{simaran}) * 15$

$$= (4x + 2x) * 10 + (4x + 3x) * 15$$

$$= 165x \text{ unit}$$

Three work alternatively, three days work = $(4x + 2x + 3x) = 9x$ unit

$$\text{In total } 54 \text{ days} = 54/3 * 9 = 162 \text{ unit}$$

$$\text{Remaining work done by A} = 165x - 162x/4x = 3/4 \text{ days}$$

$$\text{Total time } 54 + 3/4 = 54 \frac{3}{4} \text{ days}$$



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157. Ans. D.

Profit of B Ltd in 2002 after increment of 26% = $290 \times 126/100 = 365.4$ lakh

Total profit of B Ltd. = $490 + 365.4 + 400 + 300 + 150 = 1705.4$ lakh

Profit of C Ltd. in 2005 = $300 \times 75/100 = 225$ lakh

Ratio = 1705.4: 225

158. Ans. C.

From Company A,

2001 = $150 \times 127/100 = 190.5$ lakh

2002 = $260 \times 127/100 = 330.2$ lakh

2003 = $300 \times 127/100 = 381$ lakh

2004 = $350 \times 127/100 = 444.5$ lakh

2005 = $480 \times 127/100 = 609.6$ lakh

From Company B,

2001 = $300 \times 123/100 = 369$ lakh

2002 = $420 \times 123/100 = 516.6$ lakh

2003 = $500 \times 123/100 = 615$ lakh

2004 = $450 \times 123/100 = 553.5$ lakh

2005 = $500 \times 123/100 = 369$ lakh

Highest profit difference = $609.6 - 369 = 240.6$ lakh

159. Ans. E.

Average of 2003 = $1200/3 = 400$ lakh

Average of 2005 = $930/3 = 310$ lakh

Required ratio = 310: 400 = 31:40

160. Ans. A.

2001 = $150 + 300 + 490 = 940$ lakh

2002 = $260 + 420 + 290 = 970$ lakh

2003 = $300 + 500 + 400 = 1200$ lakh

2004 = $350 + 450 + 300 = 1100$ lakh

2005 = $480 + 300 + 150 = 930$ lakh

Hence, lowest profit was in 2005.

161. Ans. C.

2005 = $480 + 300 + 150 = 930$ lakh

2003 = $300 + 500 + 400 = 1200$ lakh

Average = $(930 + 1200)/2 = 1065$

2004 = $350 + 450 + 300 = 1100$ lakh

2001 = $150 + 300 + 490 = 940$ lakh

Average = $(1100 + 940)/2 = 1020$

Required ratio = 1065: 1020

= 213: 204



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