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**IBPS Clerk Prelims 2017- Memory Based Paper
(Logical Reasoning)**

Answer Key																			
1	(a)	2	(a)	3	(e)	4	(b)	5	(d)	6	(b)	7	(a)	8	(d)	9	(a)	10	(c)
11	(d)	12	(b)	13	(b)	14	(e)	15	(a)	16	(a)	17	(b)	18	(b)	19	(d)	20	(d)
21	(e)	22	(d)	23	(b)	24	(d)	25	(a)	26	(e)	27	(a)	28	(b)	29	(c)	30	(d)
31	(b)	32	(c)	33	(c)	34	(c)	35	(e)										

Solution Details

1. **Ans: (a) (U)**

S lives on even number floor but does not live on 2nd floor. Thus S, can lives on floor no. 8/6/4.

More than two person lives between V and S. V lives immediate above W but live below T. There are five person lives between X and Y.

There are two different possibilities-

(i)

Floor	Person
8	S
7	X/Y
6	
5	
4	V
3	W
2	
1	Y/X

(ii)

Floor	Person
8	Y/X
7	S
6	
5	
4	
3	V
2	W
1	Y/X

Z lives immediate above X. this condition applicable only in case (i). Thus Y lives in floor no. 7 and X lives in floor no. 1

U does not live immediately below Y. Thus U lives on 5th no. floor. And T lives in 6th floor.

Final Arrangement is -

Floor	Person
8	S
7	Y
6	T
5	U
4	V
3	W
2	Z
1	X

2. **Ans. (a) One**

S lives on even number floor but does not live on 2nd floor. Thus S, can lives on floor no. 8/6/4.

More than two person lives between V and S.V lives immediate above W but live below T. There are five person lives between X and Y.

There are two different possibilities-

(i)

Floor	Person
8	S
7	X/Y
6	
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4	V
3	W
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(ii)

Floor	Person
8	Y/X
7	S
6	
5	
4	
3	V
2	W
1	Y/X

Z lives immediate above X. this condition applicable only in case (i). Thus Y lives in floor no. 7 and X lives in floor no. 1

U does not live immediately below Y. Thus U lives on 5th no. floor. And T lives in 6th floor.

Final Arrangement is -

Floor	Person
8	S
7	Y
6	T
5	U
4	V
3	W
2	Z
1	X

3. **Ans: (e)** None of these

S lives on even number floor but does not live on 2nd floor. Thus S, can lives on floor no. 8/6/4.

More than two person lives between V and S.V lives immediate above W but live below T. There are five person lives between X and Y.

There are two different possibilities-

(i)

Floor	Person
8	S
7	X/Y
6	
5	
4	V
3	W

2	
1	Y/X

(ii)

Floor	Person
8	Y/X
7	S
6	
5	
4	
3	V
2	W
1	Y/X

Z lives immediate above X. this condition applicable only in case (i). Thus Y lives in floor no. 7 and X lives in floor no. 1

U does not live immediately below Y. Thus U lives on 5th no. floor. And T lives in 6th floor.

Final Arrangement is -

Floor	Person
8	S
7	Y
6	T
5	U
4	V
3	W
2	Z
1	X

4. **Ans. (b) V**

S lives on even number floor but does not live on 2nd floor. Thus S, can lives on floor no. 8/6/4.

More than two person lives between V and S. V lives immediate above W but live below T. There are five person lives between X and Y.

There are two different possibilities-

(i)

Floor	Person
8	S
7	X/Y
6	
5	
4	V
3	W
2	
1	Y/X

(ii)

Floor	Person
8	Y/X
7	S
6	
5	
4	
3	V

2	W
1	Y/X

Z lives immediate above X. this condition applicable only in case (i). Thus Y lives in floor no. 7 and X lives in floor no. 1

U does not live immediately below Y. Thus U lives on 5th no. floor. And T lives in 6th floor.

Final Arrangement is -

Floor	Person
8	S
7	Y
6	T
5	U
4	V
3	W
2	Z
1	X

Expect V all lives in odd numbered floor.

5. **Ans: (d) Z.**

S lives on even number floor but does not live on 2nd floor. Thus S, can lives on floor no. 8/6/4.

More than two person lives between V and S. V lives immediate above W but live below T. There are five person lives between X and Y.

There are two different possibilities-

(i)

Floor	Person
8	S
7	X/Y
6	
5	
4	V
3	W
2	
1	Y/X

(ii)

Floor	Person
8	Y/X
7	S
6	
5	
4	
3	V
2	W
1	Y/X

Z lives immediate above X. this condition applicable only in case (i). Thus Y lives in floor no. 7 and X lives in floor no. 1

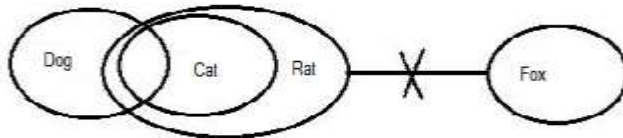
U does not live immediately below Y. Thus U lives on 5th no. floor. And T lives in 6th floor.

Final Arrangement is -

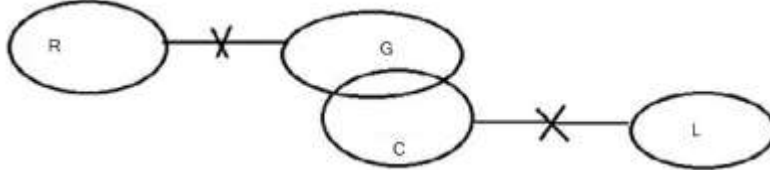
Floor	Person
8	S
7	Y
6	T

5	U
4	V
3	W
2	Z
1	X

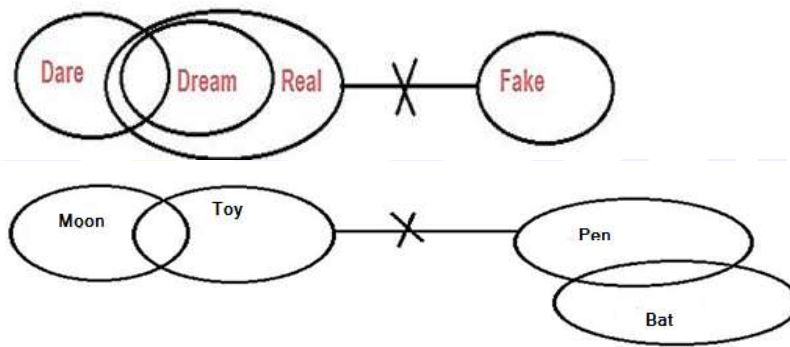
6. **Ans: (b)**



7. **Ans : (a)**



8. **Ans : (d)**

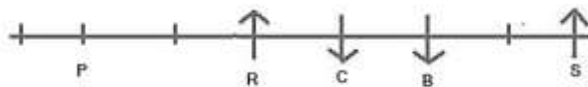


9. **Ans: (a) One**

S sits at one of the extreme ends of the line. B sits second to the left of S. Only one person sits between R and B. P sits second to the left of R. P, sits third to the right of C. Both the immediate neighbour of C faces the opposite direction



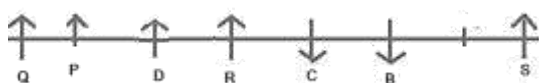
Or



Both the immediate neighbour of P faces the same direction to each other. D sits to the immediate right of P. D sits to the immediate right of P. D does not sits at any of the extreme end of the line. S and Q are not a neighbour.

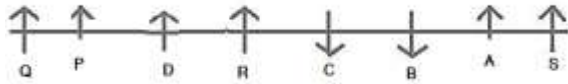


Or



S faces the same direction as D. A faces the same direction as R. A faces north, this condition applicable only in case (ii).

Final Arrangement is-

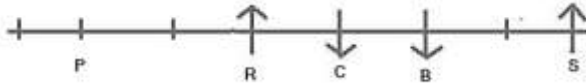


10. **Ans: (c) Q, S**

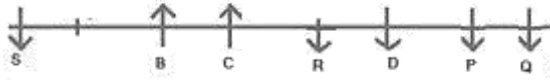
S sits at one of the extreme ends of the line. B sits second to the left of S. Only one person sits between R and B. P sits second to the left of R. P, sits third to the right of C. Both the immediate neighbour of C faces the opposite direction



Or



Both the immediate neighbour of P faces the same direction to each other. D sits to the immediate right of P. D sits to the immediate right of P. D does not sits at any of the extreme end of the line. S and Q are not a neighbour.

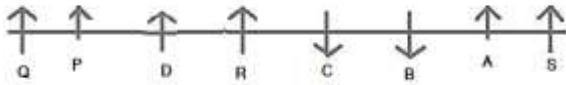


Or



S faces the same direction as D. A faces the same direction as R. A faces north, this condition applicable only in case (ii).

Final Arrangement is-

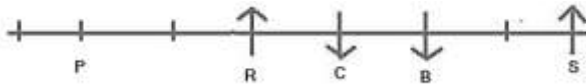


11. **Ans: (d) None**

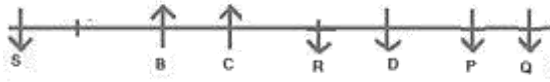
S sits at one of the extreme ends of the line. B sits second to the left of S. Only one person sits between R and B. P sits second to the left of R. P, sits third to the right of C. Both the immediate neighbour of C faces the opposite direction



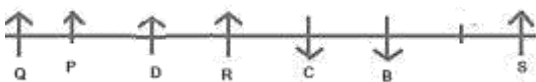
Or



Both the immediate neighbour of P faces the same direction to each other. D sits to the immediate right of P. D sits to the immediate right of P. D does not sits at any of the extreme end of the line. S and Q are not a neighbour.

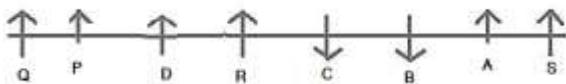


Or



S faces the same direction as D. A faces the same direction as R. A faces north, this condition applicable only in case (ii).

Final Arrangement is-

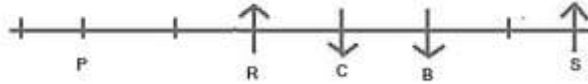


12. **Ans: (b) C**

S sits at one of the extreme ends of the line. B sits second to the left of S. Only one person sits between R and B. P sits second to the left of R. P, sits third to the right of C. Both the immediate neighbour of C faces the opposite direction



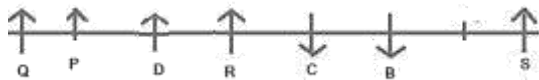
Or



Both the immediate neighbour of P faces the same direction to each other. D sits to the immediate right of P. D sits to the immediate right of P. D does not sits at any of the extreme end of the line. S and Q are not a neighbour.

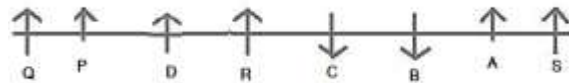


Or



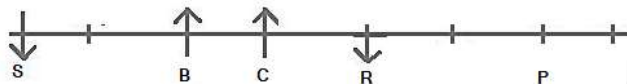
S faces the same direction as D. A faces the same direction as R. A faces north, this condition applicable only in case (ii).

Final Arrangement is-

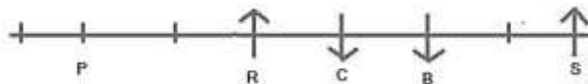


13. **Ans: (b) C**

S sits at one of the extreme ends of the line. B sits second to the left of S. Only one person sits between R and B. P sits second to the left of R. P, sits third to the right of C. Both the immediate neighbour of C faces the opposite direction



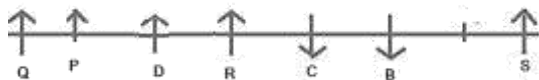
Or



Both the immediate neighbour of P faces the same direction to each other. D sits to the immediate right of P. D sits to the immediate right of P. D does not sits at any of the extreme end of the line. S and Q are not a neighbour.

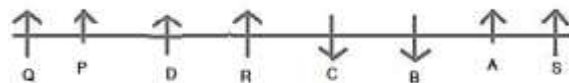


Or



S faces the same direction as D. A faces the same direction as R. A faces north, this condition applicable only in case (ii).

Final Arrangement is-



14. **Ans: (e)** If both conclusion I and II follow.

$D > E = P < O < R$

$D > P$ (True)

$R > P$ (True)

15. **Ans. (a)** If only conclusion I follows.

$S < J > B > V > K$

\downarrow

M

$J > K$ (True)

$J = M$ (False)

16. **Ans: (a)** If only conclusion I follows.

I

\downarrow

$V = F < S < H$

$H > I$ (True)

$V > I$ (False)

17. **Ans.(b)**

Two

Vowel --- (C) ---- Consonant

A C P and U C W

18. **Ans: (b) B**

After Drop All Vowel

B C CD F G B B F G B B C P B N C W

Eight from left – B

19. **Ans: (d)** More than Five

D E, G I, B E, B A, P O, N U

20. **Ans: (d)**

7th to the right of 10th alphabets from the right end = $10 - 7 = 3$

Third letter from right after interchange letter - B

21. **Ans: Ans. (e)** None of these

AB C C D E F G I B BE F G B BA C PO B N U C W K

22. **Ans. (d) 1**

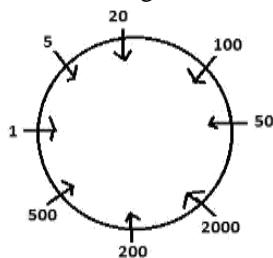
lottery ticket number 200 is arranged third to the right of ticket number 5. Lottery ticket number 100 is second to the left of 5. lottery ticket number 2000 is second to the left lottery ticket number 100.

Odd lottery ticket number (1 or 5) will not be immediate neighbour of 200 and 50. Thus even ticket number placed immediate 200 and 50.

There will be less than ticket number 100 (this is 20 and 50) to the immediate left and immediate right of lottery ticket number 100 except lottery ticket number 1.

Thus 50 placed between 100 and 2000 and 20 placed immediate right of 100. Remaining ticket no. 1 placed between 5 and 500.

So final arrangement is



23. **Ans: (b) 50**

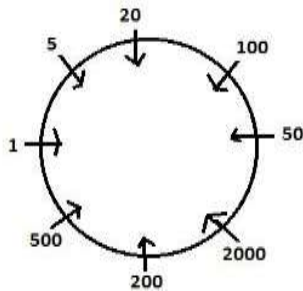
lottery ticket number 200 is arranged third to the right of ticket number 5. Lottery ticket number 100 is second to the left of 5. lottery ticket number 2000 is second to the left lottery ticket number 100.

Odd lottery ticket number (1 or 5) will not be immediate neighbour of 200 and 50. Thus even ticket number placed immediate 200 and 50.

There will be less than ticket number 100 (this is 20 and 50) to the immediate left and immediate right of lottery ticket number 100 except lottery ticket number 1.

Thus 50 placed between 100 and 2000 and 20 placed immediate right of 100. Remaining ticket no. 1 placed between 5 and 500.

So final arrangement is



24. **Ans: (d)**

2200

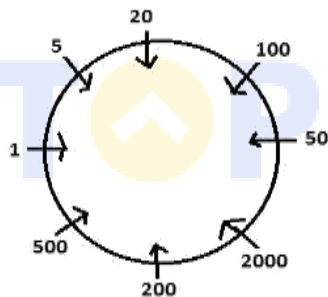
Lottery ticket number 200 is arranged third to the right of ticket number 5. Lottery ticket number 100 is second to the left of 5. lottery ticket number 2000 is second to the left lottery ticket number 100.

Odd lottery ticket number (1or 5) will not be immediate neighbour of 200 and 50. Thus even ticket number placed immediate 200 and 50.

There will be less than ticket number 100 (this is 20 and 50) to the immediate left and immediate right of lottery ticket number 100 except lottery ticket number 1.

Thus 50 placed between 100 and 2000 and 20 placed immediate right of 100. Remaining ticket no. 1 placed between 5 and 500.

So final arrangement is



25. **Ans: (a)** 5 and 20

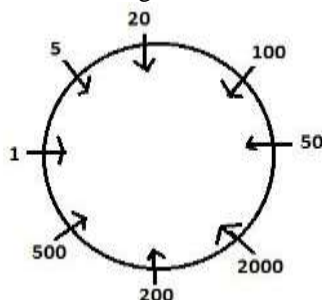
Lottery ticket number 200 is arranged third to the right of ticket number 5. Lottery ticket number 100 is second to the left of 5. lottery ticket number 2000 is second to the left lottery ticket number 100.

Odd lottery ticket number (1or 5) will not be immediate neighbour of 200 and 50. Thus even ticket number placed immediate 200 and 50.

There will be less than ticket number 100 (this is 20 and 50) to the immediate left and immediate right of lottery ticket number 100 except lottery ticket number 1.

Thus 50 placed between 100 and 2000 and 20 placed immediate right of 100. Remaining ticket no. 1 placed between 5 and 500.

So final arrangement is



26. **Ans (e)** None of these

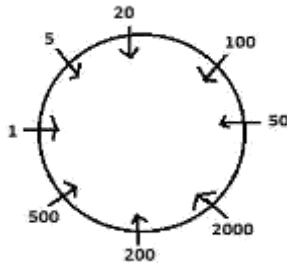
Lottery ticket number 200 is arranged third to the right of ticket number 5. Lottery ticket number 100 is second to the left of 5. lottery ticket number 2000 is second to the left lottery ticket number 100.

Odd lottery ticket number (1 or 5) will not be immediate neighbour of 200 and 50. Thus even ticket number placed immediate 200 and 50.

There will be less than ticket number 100 (this is 20 and 50) to the immediate left and immediate right of lottery ticket number 100 except lottery ticket number 1.

Thus 50 placed between 100 and 2000 and 20 placed immediate right of 100. Remaining ticket no. 1 placed between 5 and 500.

So final arrangement is



27. **Ans: (a)** New arrangement is 762 528 934 196 245
196 i.e 691 will be the lowest

28. **Ans: (b)** New arrangement is: 276 852 493 619 524
Difference: $852 - 276 = 576$

29. **Ans: (c)** New arrangement is 627 285 349 961 452
Arranged in descending order: 961 627 452 349 285
452 i.e 542 will be the third from top.

30. **Ans: (d)** 11
3rd digit of highest number = 5
2nd digit of lowest number = 6
 $6 + 5 = 11$

31. **Ans: (b)** 1
1st digit of 2nd highest number = 4
1st digit of 2nd lowest number = 4
 $4/4 = 1$

32. **Ans: (c)** 2, 0 and 4
6 3 2 1 3 8 5

After Change

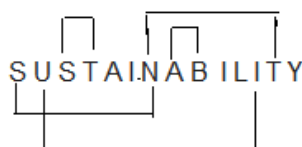
4 2 0 0 2 6 4

33. **Ans: (c)** One
SURNAME

↓
AEMNRSU

34. **Ans: (c)** Ramesh
Kaushal > Suresh > Ramesh
Madhur Tallest
Kaushal > Amit > Suresh
Madhur > Kaushal > Amit > Suresh > Ramesh.

35. **Ans: (e)** one of these



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