

Box Puzzle for IBPS RRB Clerk Prelims Exam

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Box Puzzle

Directions (1 – 5): Study the following information carefully and answer the questions given below:

Seven boxes were kept one above the other from top to bottom. Only two boxes are kept between B and U. V is kept just above S. Only three boxes are kept between S and T. More than three boxes are kept below T. U is kept above T. L is kept above B and below A.

1. Which of the following box is kept at the top most position?

- a) B
- b) L

- c) S
- d) A
- e) None of these

2. Number of boxes kept below B is same as number of boxes placed above _____?

- a) T
- b) L
- c) A
- d) U
- e) None of these

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3. Four of the following five are alike in a certain way and hence form a group find which one of the following does not belong to that group?

- a) A-T
- b) L-T
- c) T-B
- d) B-S
- e) L-V

4. Which of the following is true regarding L?

- I. Only three boxes are kept below L
- II. U is kept below L
- III. S is kept above L
- a) Both I and II
- b) Only II
- c) Only I
- d) Both I and III
- e) All I, II and III

5. Which of the following pair of boxes are not adjacent to each other?

- a) A-U
- b) L-B
- c) S-V

d) U-L

e) B-V

Directions (6 – 10): Study the following information carefully and answer the questions given below:

Eight boxes were kept one above the other in the form of a stack. Three boxes were kept between A and G. One box was kept between C and D. Not more than two boxes were kept between B and C. No boxes were kept between A and D. Three boxes were kept between E and F. Two boxes were kept between B and F. Box H was kept immediately below box E. E was kept at the top. F is kept above B.

6. How many boxes were kept between G and E?

- a) Four
- b) More than four
- c) Three
- d) Two
- e) One

7. Which of the following box was kept immediately above C?

- a) H
- b) B
- c) G
- d) D

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e) F

8. The number of boxes kept below box G was the same as between the number of boxes kept above box _____

- a) E
- b) F
- c) H
- d) C
- e) D

9. Which of the following statement is true?

- a) Two boxes were kept between A and F
- b) Other than the given options
- c) Box B was kept immediately above box G
- d) Box A was kept at the top of the stack
- e) Two boxes were kept between D and E

10. Four of the following were in a certain group, which of the following that does not belong to that group?

- a) AE
- b) BC
- c) AF
- d) DF

e) BC

Directions (11 – 15): Study the following alphanumeric series carefully and answer the questions given below:

Seven boxes A, B, C, D, E, F and G are placed one above another in a stack. All the boxes are different in colours i.e. Red, Green, Blue, Orange, Violet, White and Grey but not necessarily in same order. Three boxes are placed between box D and violet colour box. Box E is placed just below violet colour box. Red colour box is placed just above grey colour box. White colour box is placed just above box A, which is orange colour. One box is placed between box D and box G. Box D and box E is neither red in colour nor grey in colour. Box A is not placed below box E. Three boxes are placed between box F and box B. One box is placed between box B and Green colour box.

11. Which of the following colours is box E?

- a) Violet
- b) Green
- c) Blue
- d) Red
- e) None of these

12. Which of the following box is red in colour?

- a) G

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- b) B
- c) D
- d) C
- e) None of these

13. How many boxes are placed between box D and box C?

- a) One
- b) Three
- c) Two
- d) Four
- e) None

14. Which of the following box is blue in colour?

- a) G
- b) D
- c) C
- d) E
- e) None of these

15. Four of the following five are alike in certain way and hence they form a group, find the one that does not belong to that group?

- a) F-White
- b) A-Red

- c) D-Grey
- d) C-Green
- e) B-Violet

Directions (16 – 20): Study the following information and answer the given questions.

Seven boxes, A, B, C, D, E, F, and G are kept one above another in different stacks but not necessarily in the same order. These stacks are numbered 1 to 7 from bottom to the top respectively.

G is kept at an odd prime numbered position. Three boxes are stacked in between A and F, A is kept at a position below G. Box B is kept immediately below box D. Box C is not adjacent to box A. Three boxes are kept between D and G, D is kept above G.

16. How many boxes are kept between B and E?

- a) 2
- b) 1
- c) 3
- d) 4
- e) None of the above

17. Which of the following box is kept at the lowermost position?

- a) E
- b) C

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- c) F
- d) A
- e) None of the above

18. Which of the following box is adjacent to box G?

- a) B
- b) F
- c) A
- d) C
- e) None of the above

19. In which position box E is kept?

- a) 2nd
- b) 3rd
- c) 5th
- d) 7th
- e) None of the above

20. Box F is kept at the _____ position.

- a) 7th
- b) 4th
- c) 6th
- d) 2nd
- e) 5th

Directions (21 – 25): Answer the questions based on the information given below.

Ten boxes are placed in ten shelves from bottom to top such that shelf number 1 is the bottommost shelf and shelf above the bottommost shelf is numbered as 2 and so on.

Box A is placed on shelf number 5. Only three boxes are placed between the box A and J. Box E is placed immediately above the box J. Number of boxes placed between box E and A is same as the number of boxes placed between box J and C. Box B is placed on even number shelf but immediately below the box F. Box B is not placed on sixth shelf. Only one box is placed between box F and G. Box G and X are placed adjacent to each other. Box D is placed on one of the shelves above the shelf on which box W is placed.

21. Which box is placed on shelf number 9?

- a) D
- b) F
- c) J
- d) G
- e) None of these

22. Which box is placed two places below the box G?

- a) A
- b) X

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- c) B
- d) E
- e) None of these

23. ___ box is placed on 2nd shelf?

- a) Box W
- b) Box B
- c) Box G
- d) Box E
- e) None of these

24. Box W is placed immediately below the box___?

- a) Box D
- b) Box G
- c) Box F
- d) Box B
- e) Box C

25. Four of the following five are related to each in some way and thus formed a group. Choose the one which does not belong to that group.

- a) Box D
- b) Box B
- c) Box A

- d) Box X
- e) Box E

Directions (26 – 30): Study the following information and answer the given questions.

In a corporate office nine locker boxes for the new employees are installed in a single column. Locker W is stacked immediately above locker S. V is kept at an odd numbered position above the locker X, which is kept below Q. There are four boxes in between X and Q. U is kept at the top of all the boxes. Three lockers are there between P and V. Locker T, which is neither adjacent to S nor Q, is kept immediately above locker P. Neither S is adjacent to X nor W is adjacent to V. Locker T is stacked below locker V. R is one of the locker.

26. If all the lockers are arranged alphabetically from top to bottom, how many positions will remain the same?

- a) 3
- b) 2
- c) 1
- d) 0
- e) None of the above

27. How many lockers are kept below R?

- a) 2
- b) 1

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c) 3

d) 4

e) 5

28. Which of locker is kept immediately above V?

a) W

b) Q

c) S

d) X

e) None of the above

29. How many lockers are kept between W and T?

a) 3

b) 5

c) 2

d) 4

e) 1

30. Which locker is stacked immediately above W?

a) U

b) R

c) Q

d) V

e) None of the above

Directions (31 – 35): Answer the questions based on the information given below:

Six boxes A, G, C, D, E and F are kept one above the other like a stack. Each of these boxes contains different number of pens among 2, 5, 6, 7, 8 and 9. The bottommost box is numbered 1 and the topmost box is numbered 6.

Box 5 contains 8 pens and is two boxes above D. Number of pens in D is in prime number. Box with 5 pens is immediately above the box with 2 pens. Box with 9 pens is immediately above G. Box with 6 pens is below box 4. C is immediately above the box with 6 pens. F is two boxes above E but doesn't contain 9 pens.

31. The sum of number of pens of F and A is ____.

a) 13

b) 11

c) 14

d) 15

e) None of these.

32. How many boxes are below A?

a) Three

b) Two

c) Four

d) One

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e) None of these.

33. The box immediately above D has ____ pens.

a) 8

b) 5

c) 7

d) 9

e) None of these.

34. Which among the following doesn't form a group?

a) F, A

b) A, E

c) E, D

d) D, F

e) C, G

35. How many boxes are between the box with highest number of pens and the one with lowest number of pens?

a) One

b) Four

c) Three

d) Two

e) None of these.

Directions (36 – 40): Study the following information and answer the given questions.

A certain number of boxes are placed one above the another in such a way that box at the bottom is numbered as 1 and box just above it is numbered 2 and so on. There are not more than 14 boxes in the arrangement.

Only 2 boxes are kept between P and Q, where Q is kept below P. Only 3 boxes are kept between R and Q. S is kept between Q and J, which is placed immediately below P. Only 3 boxes are kept between R and B which is kept either at the top or at the bottom of the stack. Only 2 boxes are kept between R and T, which is not placed adjacent to B. Box D is placed exactly between E and F. U is placed exactly between T and W. W is placed above R.

36. Which among the following boxes is placed immediately above R?

a) E

b) F

c) W

d) U

e) D

37. How many boxes are kept below F?

a) none

b) 1

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- c) 2
- d) 3
- e) Cannot be determined

38. If T is related to S and U is related to Q. In the same way, R is related to?

- a) B
- b) F
- c) E
- d) W
- e) None of these

39. How many boxes are kept between T and R?

- a) None
- b) 1
- c) 2
- d) 3
- e) More than 3

40. Which among the following is kept at numbered 7?

- a) E
- b) T
- c) W

- d) U
- e) D

Directions (41 – 45): Study the following information carefully and answer the questions given below:

Eight boxes - P, Q, R, S, T, U, V and W were kept one above the one in the form of a stack. Three boxes were kept between P and Q. No boxes were kept between P and V. Four boxes were kept between V and W. Two boxes were kept between S and Q. Box T was kept immediately below box R. More than two boxes were kept above box U.

41. Which of the following box is kept at the top of the stack?

- a) V
- b) P
- c) S
- d) R
- e) Q

42. How many boxes were kept between R and U?

- a) Two
- b) Three
- c) None
- d) One

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e) Four

43. Which of the following box was kept immediately after W?

a) Q

b) V

c) P

d) S

e) T

44. How many boxes were kept below box T?

a) Three

b) Two

c) More than three

d) One

e) None

45. The number of boxes kept above box R was the same as the number of boxes kept below box _____

a) W

b) U

c) S

d) Q

e) T

Directions (46 – 50) Study the following information carefully and answer the questions given below:

Eight boxes are kept one above the other. More than five boxes are kept above box P. Box D is kept immediately above box R and immediately below box G. Two boxes are kept between box R and box Z. Box N is kept below Z and above box L. Box T is kept below box L but not immediate below. At least four boxes are kept below box R.

46. Which of the following is not true?

a) Box P is kept above box T

b) Box T is kept at the bottom

c) There are two boxes kept below box L

d) Box R is kept immediately above box L

e) All are incorrect

47. Number of boxes kept below box G is same as number of boxes kept above _____?

a) N

b) L

c) P

d) R

e) None of these

48. How many boxes are kept above box Z?

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- a) Two
- b) Three
- c) None
- d) Five
- e) Four

49. Which box is kept exactly between box N and box P?

- a) L
- b) T
- c) Z

- d) R
- e) None of these

50. If box P is related to box L, box N is related to box R, then in the same manner box G is related to _____?

- a) D
- b) Z
- c) R
- d) T
- e) None of these

Answers with Explanation:

(1 – 5): Common Explanation:

From the given statements, More than three boxes are kept below T. Only three boxes are kept between S and T. V is kept just above S. So we have three possible cases i.e. case-1, case-2 and case-3:

Case – 1	Case – 2	Case – 3
Boxes	Boxes	Boxes
		T
	T	
T		
		V

	V	S
V	S	
S		

Only two boxes are kept between B and U. U is kept above T. So case-3 is eliminated. L is kept above B and below A. So case-2 is eliminated. Hence the final arrangement is:

Boxes
A
U

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T
L
B
V
S

1. Answer: D)

2. Answer: A)

3. Answer: B)

4. Answer: C)

5. Answer: D)

(6 – 10): Common Explanation:

Three boxes were kept between E and F. Two boxes were kept between B and F. Box H was kept immediately below box E. E was kept at the top. F is kept above B.

Box
E
H
F
B

Three boxes were kept between A and G. One box was kept between C and D. Not more than two boxes were kept between B and C.

Box
E
H
A/G
D
F
C
A/G
B

No boxes were kept between A and D.

Box
E
H
A
D
F
C
G
B

6. Answer: B)

7. Answer: E)

8. Answer: C)

9. Answer: E)

10. Answer: D)

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(11 – 15): Common Explanation:

From the given statement, three boxes are placed between box D and violet colour box. Box E is placed just below violet colour box. White colour box is placed just above box A, which is orange colour. One box is placed between box D and box G. Box A is not placed below box E. Here we get two possibilities i.e. Case-1 and case-2.

Case-1		Case-2	
Box	Colour	Box	Colour
D	White/		White
A/	Orange/	A	Orange
G	White/		Violet
A/	Orange/	E	
	Violet	G	
E			
		D	

Now, Red colour box is placed just above grey colour box. Box D and box E is neither red in colour nor grey in colour. Here case-2 ruled out. Three boxes are placed between box F and box B. One box is placed between box B and Green colour box. So, the final arrangement will be:

Box	Colour
F	Blue
D	White
A	Orange
G	Red
B	Grey
C	Violet
E	Green

11. Answer: B)

12. Answer: A)

13. Answer: B)

14. Answer: E)

15. Answer: C)

(16 – 20): Common Explanation:

Box B is kept immediately below box D.

Three boxes are kept between D and G, D is kept above G.

G is kept at an odd prime numbered position.

Serial Number	Boxes
7	D
6	B
5	
4	
3	G
2	
1	

Three boxes are staked in between A and F, A is kept at a position below G.

Box C is not adjacent to box A.

Serial Number	Boxes
7	D
6	B
5	F
4	C

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3	G
2	E
1	A

Therefore, this is the final arrangement.

16. Answer: C)

17. Answer: D)

18. Answer: D)

19. Answer: A)

20. Answer: E)

(21 – 25): Common Explanation:

Box A is placed on shelf number 5. Only three boxes are placed between the box A and J.

Box E is placed immediately above the box J.

Number of boxes placed between box E and A is same as the number of boxes placed between box J and C.

Case I: When box J is placed below the box A:

Shelf	Person
10	
9	
8	
7	
6	
5	A
4	C

3	
2	E
1	J

Case II: When box J is placed above the box A:

Shelf	Person
10	E
9	J
8	
7	
6	
5	A
4	C
3	
2	
1	

Box B is placed on even number shelf but immediately below the box F.

Box B is not placed on sixth shelf. Only one box is placed between box F and G.

Case I: When box J is placed below the box A:

Shelf	Person
10	
9	F
8	B
7	G
6	
5	A
4	C

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3	
2	E
1	J

Case II: When box J is placed above the box A:

Shelf	Person
10	E
9	J
8	
7	
6	
5	A
4	C
3	F
2	B
1	G

G and X are placed adjacent to each other which is not possible in case II so, case II is invalid.

Box D is placed on one of the shelves above the shelf on which box W is placed.

The final arrangement is as follows:

Shelf	Person
10	D
9	F
8	B
7	G
6	X
5	A
4	C

3	W
2	E
1	J

21. Answer: B)

22. Answer: A)

23. Answer: D)

24. Answer: E)

25. Answer: C)

(26 – 30): Common Explanation:

U is kept at the top of all the boxes.

V is kept at an odd numbered position above the locker X, which is kept below Q. There are four boxes in between X and Q

S No.	Lockers(Case I)	Lockers(Case II)	Lockers(Case III)
9	U	U	U
8	Q		
7	\V		Q
6		Q	
5	\V	\V	\V
4			
3	X	\V	\V
2			X
1		X	

Locker W is stacked immediately above locker S.

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Locker T, which is neither adjacent to S nor Q, is kept immediately above locker P.

Locker T is stacked below locker V.

Neither S is adjacent to X nor W is adjacent to V.

Case III will become invalid.

S No.	Lockers(Case Ia)	Lockers(Case Ib)	Lockers(Case II)
9	U	U	U
8	Q	Q	W
7	W	V	S
6	S		Q
5	V		V
4			
3	X	X	
2	T	W	
1	P	S	X

Three lockers are there between P and V. R is one of the locker.

Therefore, case Ib and II are invalid. Finally, we have

S No.	Lockers
9	U
8	Q
7	W
6	S
5	V
4	R
3	X

2	T
1	P

If all the lockers are arranged alphabetically from top to bottom, it will be:

S No.	Lockers
9	P
8	Q
7	R
6	S
5	T
4	U
3	V
2	W
1	X

26. Answer: B)

27. Answer: C)

28. Answer: C)

29. Answer: D)

30. Answer: C)

(31 – 35): Common Explanation:

As Box 5 contains 8 pens and is two floors above D.

Number of pens in D is prime numbered.

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Box with 5 pens is immediately above the box with 2 pens, so D contains either 2 or 5 or 7 pens.

	Case I	Case II	Case III
6			
5	(8)	(8)	(8)
4	(5)		
3	D(2)	D(5)	D(7)
2		(2)	(5)
1			(2)

Box with 9 pens is immediately above G.

Box with 6 pens is below box 4, this is not possible in case III, so case III is rejected.

C is immediately above the box with 6 pens.

F is two boxes above E but doesn't contain 9 pens, so case II is rejected, so F contains 7 pens, and E contains 5 pens.

The final table is given below:

6	F(7)
5	A(8)
4	E(5)
3	D(2)
2	C(9)
1	G(6)

31. Answer: D)

32. Answer: C)

33. Answer: B)

34. Answer: D)

35. Answer: E)

(36 – 40): Common Explanation:

a) Only 2 boxes are kept between P and Q, where Q is kept below P.

Box No.	Box
	P
	Q

b) Only 3 boxes are kept between R and Q.

(so, we get 2 possible case here).

Case 1:

Box No.	Box
	R
	P
	Q

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Case 2:

Box No.	Box
	P
	Q
	R

c) S is kept between Q and J, which is placed immediately below P.

Case 1:

Box No.	Box
	R
	P
	J
	S
	Q

Case 2:

Box No.	Box
	P
	J
	S
	Q
	R

d) Only 3 boxes are kept between R and B.

e) B is kept either at top or bottom.

Case 1:

Box No.	Box
	B
	R
	P
	J
	S
	Q

Case 2:

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Box No.	Box
	P
	J
	S
	Q
	R
	B

f) Only 2 boxes are kept between R and T, which is not placed adjacent to B.

(so, case 1 gets eliminated here)

Case 2:

Box No.	Box
	P
	J
	S
	Q
	T
	R
	B

g) U is placed exactly between T and W.

Case 2:

Box No.	Box
	P
	J
	S
	Q
	T
	U
	W
	R
	B

h) Box D is placed exactly between E and F.

Box No.	Box
12	P
11	J
10	S
9	Q
8	T
7	U
6	W
5	R
4	E/F
3	D
2	E/F
1	B

36. Answer: C)

37. Answer: E)

38. Answer: E)

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39. Answer: C)

40. Answer: D)

(41 – 45): Common Explanation:

Three boxes were kept between P and Q. No boxes were kept between P and V. Four boxes were kept between V and W.

Case 1	Case 2	Case 3	Case 4
Box	Box	Box	Box
P		W	
V	P		W
	V	Q	
			Q
Q			
	Q	V	
W		P	V
	W		P

Two boxes were kept between S and Q. Box T was kept immediately below box R. More than two boxes were kept above box U.

Hence, case 2 and case 3 are invalid.

Case 1	Case 4
Box	Box
P	S
V	W
R	U
T	Q
Q	R

U	T
W	V
S	P

Case 4 is invalid

So, the final solution is

Case 1
Box
P
V
R
T
Q
U
W
S

41. Answer: B)

42. Answer: A)

43. Answer: D)

44. Answer: C)

45. Answer: B)

(46 – 50): Common Explanation:

More than five boxes are kept above box P. Box D is kept immediately above box R and immediately below box G. Two boxes are kept between box R and box Z. At

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least four boxes are kept below box R. Hence we have five cases:

Case-1	Case-2	Case-3	Case-4	Case-5
Z	G	Z		G
G	D	G	G	D
D	R	D	D	R
R		R	R	
	Z			Z
P	P		Z	
		P	P	P

Box N is kept below Z and above box L. Hence Case-2, Case-4 and Case-5 are eliminated. Box T is kept below box L but not immediate below. Hence Case-3 is eliminated. So the final arrangement is:

Z
G
D
R
N
L
P
T

46. Answer: D)

47. Answer: C)

48. Answer: C)

49. Answer: A)

50. Answer: B)

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