# IBPS RRB OFFICER (Preliminary)

# Solved Original Question Paper - 2020

Duration: 1 Hour

Maximum Marks: 100

Held on: 13.09.2020

# **PART I - REASONING ABILITY**

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

Ten boxes are placed in an almirah such that the box which is at lowest place is numbered as  $1^{st}$ , and the box above it is numbered as  $2^{nd}$  and so on till the topmost box is numbered as  $10^{th}$ .

Four boxes are placed between J and K, which is placed at an odd-numbered position. Box K is placed below box J. Box M is placed below box K. Two boxes are placed between K and L, which is placed just below box Q. Box B is placed below box M. Box Q is placed at the 7<sup>th</sup> position. Box I is placed at an even-numbered position but above box P. Box A is placed immediate above box R.

- Which box is placed at the bottom in the almirah?
  - **A)** J

**B)** K

- **C)** I
- **D)** Q
- **E)** B
- 2. Which of the following boxes is placed at the  $9^{th}$  position?
  - **A)** J
- B) P
- **C)** Q
- **D)** M
- **E)** R
- 3. How many boxes are placed between box L and box B?
  - A) Three
- B) Two
- **C)** Four
- D) Seven
- E) One
- 4. Four of the following are alike in a certain way, based on their position in the given arrangement. Which of the following does not belong to that group?
  - **A)** B

- **B)** L
- **C)** K
- **D)** A
- **E)** Q

- 5. Which of the following is true as per the given information?
  - A) Box J is placed just above box L.
  - B) Two boxes are placed between box P and box Q.
  - **C)** Box R is placed at an even-numbered position.
  - **D)** Box K is placed at the fourth position.
  - E) None of the given options is true

#### Explanation: (1-5)

On the basis of given information and conclusions / sub-conclusions drawn from them we can organise the data in the following table.

Almirah Member	Box Name
10	I
9	P
8	J
7	Q
6	L
5	A
4	R
3	K
2	M
1	В

- 1. (E), 2. (B), 3. (C)
- **4. (B)** All other boxes are at odd-numbered positions.
- 5. (C)
  - 6. How many such pairs of letters are there in the word 'QUOTIENT', each of which has as many letters between them in the word (in both forward and backward direction) as they have between them in the English alphabet?
    - A) None
- B) One
- C) Two
- **D)** Three
- E) More than three

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**Explanation:** Ans : (D) Given Word:

I E N

#### Alphabet Series:

 $O P Q \longrightarrow 1$  letter is in between

#### Given Word

 $O \cup Q \longrightarrow 1$  letter is in between

#### Similarly,

Q R S T  $\longrightarrow$  2 letters are in between

Q  $\overline{U}$  O T  $\longrightarrow$  2 letters are in between

O P Q R S T  $\longrightarrow$  4 letters are in between

O T I E N T  $\longrightarrow$  4 letters are in between

### Directions (Qns. 7-11): Study the following information carefully and answer the questions given below:

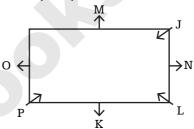
Seven friends are sitting around a square table in such a way that three of them sit at the corners of the square while four sit in the middle of each of the four sides. The ones who sit at the corners face inside while those who sit in the middle of the sides face outside. One of the corner seats is vacant.

K sits second to the left of O and third to the left of J. Two persons sit between N and P. M sits second to the left of N and adjacent to the vacant seat. One person sits between P and L.

- 7. How many persons sit between J and O when counted from the right of J?
  - A) More than three B) One
  - C) None
- D) Two
- E) Three
- Who sits third to the right of L? 8.
  - **A)** J
- **B)** O
- **C)** K
- **D)** N
- **E)** M
- Four of the following five are alike in a certain way as per the given information. Which of the following does not belong to that group?
  - A) JL
- B) LP
- C) PM
- D) OK
- E) MO

- 10. Who among the following sits adjacent to
  - **A)** J
- **B)** P
- **C)** N
- D) K
- E) L
- Which of the following information is true as per the given information?
  - A) J sits on the immediate left of M.
    - B) Three persons sit between J and P when counted from the left of J.
    - **C)** N sits second to the left of K.
    - D) Both (A) and (B)
    - E) Both (B) and (C)

Explanation: (7-11)



7. (B), 8. (E), 9. (C), 10 (B), 11. (E)

Directions (Qns. 12-16): In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

- **A)** if only conclusion I is true.
- **B)** if only conclusion II is true.
- **C)** if either conclusion I or II is true.
- **D)** if neither conclusion I nor II is true.
- E) if both conclusion I and II are true.
- 12. Statements :  $C > A \ge T$ . S < E = T
  - Conclusions: I. A>E

II. C>S

Ans: (B)

## **Given Statements**

**Explanation:** 

 $C > A \ge T$ .... (i)

S > E = T.... (ii)

Combining (i) and (ii) we get,

 $C > A \ge T = E > S$ 

 $A \ge T$ :  $T = E \Rightarrow A \ge E$ 

Hence the conclusion I (A > E) is not true.

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Again

C > A;  $A \ge T \Rightarrow C > T$ 

C > T;  $T = E \Rightarrow C > E$ 

C > E;  $E > S \Rightarrow C > S$ 

Hence the conclusion II (C > S) is true.

13. Statements :  $F < U \le N$ , D > H < U = BConclusions : I. H < N II. H = N

Evalenation :

Ans (A)

**Explanation:** 

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**Given Statements** 

 $F < U \le N$  .... (i)

D > H < U = B .... (ii)

Combining (i) and (ii) we get,

 $H < U \le N$ 

H < U;  $U \le N \Rightarrow H < N$ 

Hence the conclusion I (H < N) is true.

But the conclusion II (H = N) is not true.

14. Statement :  $G \le L \ge O \ge W \ge I < N$ 

Conclusions : I. I<L II. L=I

Explanation:

Ans : (C)

**Given Statement** 

 $G \le L \ge O \ge W \ge I < N$ 

 $L \ge O$ ;  $O \ge W \Rightarrow L \ge W$ 

 $L \ge W$ ;  $W \ge I \Rightarrow L \ge I$ 

Conclusion I (I < L) and Conclusion II (L=I) make a complementary pair for I < L.

Hence either conclusion I or II is true.

15. Statement :  $G \le L \ge O \ge W \ge I < N$ 

Conclusions: I. O>G

II. W<N

 ${\bf Explanation}:$ 

Ans : (D)

**Given Statement** 

$$G \le L \ge O \ge W \ge I < N$$

We cannot compare O and G. Hence the conclusion I (O > G) is not true.

We cannot compare W and N. Hence the conclusion II (W < N) is not true.

16. Statement :  $R > M \ge T \le Q = S$ 

Conclusions: I. R>Q II.

II. Q≥M

**Explanation:** 

Ans : (D)

**Given Statement** 

$$R > M \ge T \le Q = S$$

We cannot compare R and Q. Hence the conclusion I (R > Q) is not true.

 $R > M \ge T \le Q = S$ 

We cannot compare Q and M. Hence the conclusion II (Q > M) is not true.

Directions (Qns. 17-21): Study the following information carefully and answer the questions given below:

There are ten persons, namely J, K, L, M, N, P, Q, R, S and T, They stay in a five-floor building. The bottom floor is numbered 1, the one above that is numbered 2 and so on till the topmost floor is numbered 5. Each floor of the building has two flats, namely flat A and flat B. Flat A is to the west of flat B. Flat A of floor 2 is immediately above the flat A of floor 1 and immediately below the flat B of floor 2 is immediately above the flat B of floor 1 and immediately below the flat B of floor 3, and so on.

**Note**: Staying in the same flat type means if one person stays in flat A then the other person also stays in flat A.

Q stays in flat A of an odd-numbered floor, but not the topmost floor. There are two floors between the floors of N and R. J stays just above Q. S and N are in different flat types on different floors. S stays on the topmost floor. There is no one to the east of R. M is to the east of L and on a floor above L. N and R stay in the same flat type. P stays on one of the floors below Q, but not immediately below Q. R's floor is just below the floor of S. M does not stay on the fifth floor. T stays below K.

- 17. Who is staying to the west of M?
  - **A**) S

- **B)** L
- C) J
- **D)** Q
- **E)** R
- 18. How many floors are there between T and K?
  - A) One
  - B) Two
  - C) Three
  - **D)** They are on the same floor
  - E) Zero
- 19. Who stays two floors above L in the same type of flat as that of L?
  - **A)** R
- **B)** K
- **C)** S
- **D)** P
- **E)** J

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- 20. Who stays immediately below K?
  - A) S
- **B)** M
- **C)** R
- D) T
- **E)** P
- 21. Which of the following combinations stays on the fourth floor?
  - A) S and K
- B) Q and M
- C) R and L
- D) J and R
- E) P and N

Explanation: (17 - 21)

On the basis of given information and conclusions and sub-conclusions drawn from them, we can draw the following table.

Floor Number	Flat A	Flat B
5	S	K
4	J	R
3	Q	M
2	L	Т
1	P	N

- 17.(D) 18.(B) 19.(E) 20.(C) 21.(D)
- 22. Which of the following symbols should be placed in the blank spaces respectively (in the same order from left to right) in order to complete the given expression  $R > M \geq U \_ T \_ P \_ Q = S$  in such a manner that "S  $\geq$  U" definitely holds true?
  - A) >,  $\geq$ , <
- B)  $\leq$ , <, >
- C)  $\geq_{..} =_{.} =$
- **D)**  $\leq$  = <
- **E)** Other than those given as options

Ans. (E)

Directions (Qns. 23-28): Study the following information carefully and answer the questions given below:

Some persons are sitting in a row. Some are facing south and some are facing north.

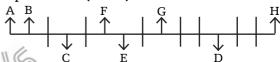
C is sitting second to the right of B and both are facing opposite directions. F is sitting fifth to the right of A and is facing north. G is sitting at the ninth position from the west and is facing north. D is sitting third to the left of H and both are facing opposite directions. E is sitting on the immediate right of F and both are facing opposite directions. B is sitting tenth to the right of D

and both are facing opposite directions. A is at the extreme west and H is at the extreme east and both of them are facing north. No seats are available between A and B.

- 23. Who is sitting in the middle of the row?
  - A) ]

- **B)** E
- **C)** G
- **D)** D
- E) No one
- 24. Who is sitting third to the left of C?
  - **A)** E
- **B)** A
- **C)** B
- **D)** C
- **E)** F
- 25. How many seats are there in the row?
  - **A)** 15
- **B)** 9
- **C)** 12
- **D)** 16
- **E)** 7
- 26. If the positions of C and F are interchanged, who are the immediate neighbours of F?
  - **A)** B
- **B)** F
- **C)** E
- **D)** G
- E) No one
- 27. Who is sitting sixth to the left of H?
  - **A)** G
- **B)** F
- **C)** E
- **D)** C
- **E)** B
- 28. Who is sitting third to the right of F?
  - A) G
- **B)** C
- **C)** B
- **D)** D
- **E)** H

Explanation: (23-28)



23.(E) 24.(A) 25.(A) 26.(E) 27.(A) 28.(A)

Directions (Qns. 29-33): Study the following information carefully and answer the questions given below:

In a certain code language,

"Live Today Like Last" is written as "ra mu pe ka",
"Live Like A King" is written as "su ka pe ke",

"Be Like Last King" is written as "pe na ke ra", and "A Good Day Today" is written as "da ku mu su".

**Note**: All the given codes are two-letter codes only.