

# BANK EXAMS

## REASONING

### Alphabet – Number Series

**Alpha-Numeric-Symbol Sequence:** Alpha-Numeric- Symbol sequence is very important chapter in reasoning. While solving the problems related to this topic the following points are to be remembered.

- Understand the meaning of the following terms.
  - A precedes B
  - B is preceded by A
  - B follows A
  - A is followed by B
- The above mentioned terms are frequently used in the questions of this topic.
- We can observe that the meaning of all the above mentioned terms is the same. We can illustrate it as "AB".
- Candidates often get confused about the sense of direction of the **left** and the **right**. You can understand that our 'left-hand-side' is the left and our right-hand-side' is the right direction. We can use this concept wherever we find the questions based on the left-right direction.

**Example:**

A B 7 C D 9 Z Y ★ P 2 M # K S 3 ! 5 N T @

**Note:** In the above given elements (letters, digits, and symbols) **A** is to the left of **B** and **@** is to the right of **T**.

### Model Questions

**Directions (Q.1 – 5):** Study the following arrangement carefully and answer the questions given below:

M 4 P A 3 % R 5 # E J 2 \$ D F 1 U H B @ 9 T W I 8 K N 6 © V 7 Z Q

- If all the symbols in the above arrangement are dropped, which of the following will be the seventeenth from the left end?
  - 1
  - F
  - 9
  - B
  - None of these
- Which of the following is the eighth to the right of the twentieth from the right end of the above arrangement?
  - T
  - %
  - 2
  - 6
  - None of these
- How many such consonants are there in the above arrangement each of which is immediately preceded by a number but not immediately followed by another consonant?
  - None
  - One
  - Two
  - Three
  - More than three
- Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?
  - R # J
  - 9 B W
  - P M 3
  - 6 V K
  - 2 D U
- How many such numbers are there in the above arrangement each of which is immediately preceded by a consonant and immediately followed by a symbol?
  - None
  - One
  - Two
  - Three
  - More than three

**Directions (Q.6 – 10):** To answer these questions study the following arrangements:

J Y 2 = S £ δ E G M ★ 7 \$ H P 9 K L β @ W Q 1 3 # C D ©

6. How many such symbols are there in the above arrangement each of which is either immediately followed by a number or immediately preceded by a letter, but not both?  
1) Nil                                          2) 1                                          3) 2                                          4) 3  
5) None of these
7. How many such letters are there each of which is either immediately followed by a number or immediately preceded by a symbol, but not both?  
1) 4                                          2) 5                                          3) 6                                          4) 7  
5) None of these
8. How many such numbers are there each of which is either immediately followed by a symbol or immediately preceded by a letter, but not both?  
1) 2                                          2) 4                                          3) 3                                          4) 5  
5) None of these
9. '2YS' is to 'EG£' in the same way as 'PHK' is to .....
- 1) @WL                                          2) WQβ                                          3) @3Q                                          4) @WK  
5) None of these
10. Four of the following five are alike in a certain way based on the positions of the elements in the above arrangement and hence form a group. Which one does not belong to the group?  
1) 2YCD                                          2) £S13                                          3) JS©3                                          4) £E1W  
5) =#2C

**Directions (Q.11 – 17):** Study the following arrangement carefully and answer the questions given below:

B = A R 5 8 E % M F 4 J 1 U @ H 2 © 9 T I 6 ★ W 3 P # K 7 \$ Y

11. Which of the following is the twelfth to the left of the twentieth from the left end of the above arrangement?  
1) %                                          2) W                                          3) \$                                          4) J  
5) None
12. How many such numbers are there in the above arrangement each of which is immediately preceded by a consonant and also immediately followed by a symbol?  
1) None                                          2) One                                          3) Two                                          4) Three  
5) More than three
13. How many such symbols are there in the above arrangement each of which is immediately preceded by a letter and also immediately followed by a number?  
1) None                                          2) One                                          3) Two                                          4) Three  
5) More than three
14. How many such consonants are there in the above arrangement each of which is immediately preceded by a consonant and also immediately followed by a number?  
1) None                                          2) One                                          3) Two                                          4) Three  
5) More than three
15. If all the numbers in the above arrangement are dropped, which of the following will be the eleventh from the right end?  
1) U                                          2) T                                          3) F                                          4) H  
5) None of these
16. How many such vowels are there in the above arrangement each of which is either immediately preceded by a symbol or immediately followed by a symbol or both?  
1) None                                          2) One                                          3) Two                                          4) Three  
5) Four

17. Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

- 1) 1@4                      2) ©TH                      3) WP6                      4) #73  
5) 92I

**Directions (Q.18 – 24):** These questions are based on the following letter / number / symbol arrangement. Study it carefully and answer the questions.

H T 6 # E 7 \$ K I L % 3 P @ 2 A J ↑ R U 4 ★ V D

18. How many such symbols are there in the above arrangement, each of which is immediately preceded by a number and also immediately followed by a vowel?

- 1) None                      2) One                      3) Two                      4) Three  
5) More than three

19. Which element is fifth to the right of thirteenth from the right end?

- 1) F                      2) ↑                      3) 1                      4) K  
5) None of these

20. What will come in place of the question mark (?) in the following series based on the above arrangement?

T#6    7K\$    L3%    ?

- 1) @2A                      2) A@2                      3) P2@                      4) 2P@  
5) None of these

21. Which element is third to the left of tenth from the left end?

- 1) K                      2) 3                      3) P                      4) \$  
5) None of these

22. How many such letters are there in the given arrangement each of which is immediately preceded by a symbol but not immediately followed by a number?

- 1) None                      2) One                      3) Two                      4) Three  
5) More than three

23. Four of the following five are alike in a certain way based on their positions in the given arrangement and so form a group. Which is the one that does not belong to the group?

- 1) KL\$                      2) P23                      3) 2J@                      4) L3I  
5) 4D★

24. If all the numbers are removed from the given arrangement which element will be ninth from the left end?

- 1) %                      2) L                      3) P                      4) I  
5) None of these

### ANSWERS

1-3; 2-1; 3-2; 4-5; 5-4; 6-4; 7-5; 8-2; 9-1; 10-4; 11-1; 12-3; 13-1; 14-2; 15-4; 16-4; 17-5; 18-2; 19-5; 20-5; 21-4; 22-4; 23-5; 24-1.

### Explanations

**1-3;** Dropping the symbols, we get the arrangement as

M 4 P A 3 R 5 E J 2 D F 1 U H B 9 T W I 8 K N 6 V 7 Z Q

Hence 9 is the 17<sup>th</sup> element from left.

**2-1;** 8<sup>th</sup> to the right of 20<sup>th</sup> from the right

$$= (20 - 8)$$

$$= 12^{\text{th}} \text{ from the right}$$

$$= T.$$

3-2; P

4-5; In 5 there is unidirectional movement.

5-4; All other covers a span of five characters only but 5 covers six.

6-4; J Y 2 = S £ δ E G M ★ \$ H P 9 K L β @ W Q 1 3 # C D ©

7-5; J Y 2 = S £ δ E G M ★ 7 \$ H P 9 K L β @ W Q 1 3 # C D ©

There are eight such letters.

8-2; J Y 2 = S £ δ E G M ★ 7 \$ H P 9 K L β @ W Q 1 3 # C D ©

9-1; If you put a mirror after the third element of the first term, the points of reflection constitute the second term.

10-4; In all others, the first element occupies the same position from the left as the third does from the right. And a similar relationship exists between the second and fourth elements.

11-1; 12<sup>th</sup> to the left of 20<sup>th</sup> from the left

$$= (20 - 12)$$

$$= 8\text{th from the left}$$

$$= \%$$

12-3; 2 and 7

13-1;

14-2; F

15-4; If the numbers are dropped, the arrangement becomes

B = A R E % M F J U @ H © T I ★ W P # K \$ Y

Now, 11<sup>th</sup> from right = H

16-4; A, E and U.

17-5;

18-2; #

19-5; 5<sup>th</sup> to the right of 13<sup>th</sup> from the right

$$= (13 - 5)$$

$$= 8\text{th from the right} = J$$

20-5; @ A 2 as the letters of a group are four places forward from the corresponding letters of the previous group.

21-4; 3<sup>rd</sup> to the left of 10<sup>th</sup> from the left

$$= (10 - 3)$$

$$= 7\text{th from the left}$$

$$= \$$$

22-4; K, R and V.

23-5; In all others, we have

$$1\text{st element} + 2 = 2\text{nd element}$$

$$\text{And } 1\text{st element} - 1 = 3\text{rd element.}$$

24-1; Removing the numbers, we obtain the arrangement as

H T # E \$ K 1 L % P @ A J ↑ R U ★ V D

Now 9<sup>th</sup> from the left = %.

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