

Alphanumeric Series

An alphanumeric series comprises a combination of alphabets and numbers arranged in a specific pattern. These series can take various forms, such as ascending, descending, alternating, or mixed sequences. To decipher them, it's crucial to grasp the underlying patterns and relationships they exhibit.

Alphanumeric Series Definition

Alphanumeric series refers to a sequence or pattern that combines both alphabetic characters (letters) and numeric characters (numbers) in a specific arrangement. It involves the orderly progression of letters and numbers, often following a predefined rule or pattern. These series can be ascending, descending, alternating, or a combination of different arrangements.

The purpose of alphanumeric series is to test one's ability to recognize and understand the underlying patterns or rules within the sequence, allowing for the prediction or identification of missing elements in the series.

Alphanumeric Series Examples

Here are a few examples of alphanumeric series:

- **1A, 2B, 3C, 4D, 5E, ...:** In this series, the numbers increase by 11, while the corresponding letters follow the alphabetical order. The next elements would be 6F, 7G, 8H, and so on.
- **1A, 2B, 3C, 4D, 5E, ...:** In this series, the numbers increase by successive squares. The next elements would be F36, G49, H64, and so forth.
- **5Z, 4Y, 3X, 2W, 1V, ...:** In this series, the numbers decrease by 11, while the corresponding letters move backwards in alphabetical order. The next elements would be 6U, 7T, 8S, and so on.
- **3, 8, 15, 24, 35, ...:** In this series, the numbers follow a pattern of adding consecutive odd numbers. The next elements would be 48, 63, 80, 99, and so forth.
- **2A, 4C, 6E, 8G, 10I, ...:** In this series, the numbers increase by 22, while the letters follow the alphabetical order. The next elements would be 12K, 14M, 16O, and so on.

Tips & Tricks To Solve Alphanumeric Questions

There are a variety of types in which questions may be asked for the alphanumeric series. These include:

- **Missing Series:** Where a series of alphabets and numbers may be given a particular pattern and candidates may be asked to fill in the blank space with the required element

- **Alphabet-Number-Symbol:** These questions may also be asked in a format where a series with alphabets, number and different types of symbols (like &, *, \$, etc.) may be given, and questions may be asked based on them
- **Only Alphabetic Series:** Series with either missing element or questions with sub parts may be asked which comprise only English Alphabets and no numbers, set in a specific pattern
- **Only Numerical Series:** Series comprising only numbers, set in a specific pattern may be asked the exam. Questions based on this type may be asked in the form of rearrangement of numbers or digits with the number in ascending, descending or any other order.

Directions (Q1-Q2): Refer to the alphanumeric series given below and answer the questions:

A * 5 9 I N & E @ # U 1 &

Q 1. How many vowels in the above arrangement are preceded by a symbol?

1. One
2. Two
3. Three
4. None
5. Four

Answer: (2) Two; "E" is preceded by "&" and "U" is preceded by "#"

Q 2. Which is the second element to the left of the sixth element from the right?

1. &
2. @
3. N
4. E
5. 9

Answer: (3) N; Sixth element from the right is E and second to its left is N

Directions(Q3-Q4): Find the missing element in the series given below :

Q 3.

ABD EFH IJL MNP QRT ?

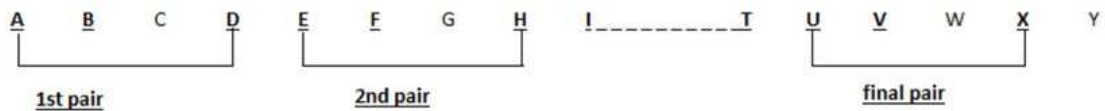
1. XYZ
2. VWY
3. WXZ

4. UVX

5. XZA

Answer: (4) UVX;

Solution:



Q 4.

ACE ? MOQ SUW

1. GIK

2. FHJ

3. GHJ

4. GIL

5. EFH

Answer: (1) GIK;

Solution:



Directions (Q5-Q6): Refer to the numerical series given below and answer the questions:

435 224 786 823 902

Q 5. When all the digits in each of the given numbers are arranged in ascending order, which number becomes the highest?

1. 435

2. 224

3. 786

4. 823

5. 902

Answer: (3)786

Solution: When the digits are arranged in ascending order within the number, the new numbers formed are:

435 – 345

224 – 224

786 – 678

823 – 238

902 – 092

Q 6. When the digits within the number are multiplied with each other, the product of which number is the lowest?

1. 435
2. 224
3. 786
4. 823
5. 902

Answer: (5)902; any number multiplied with 0 will give the answer 0, which is the least

EXERCISE

Directions (1-2): Refer to the alphanumeric series given below and answer the following questions:

A * 5 9 I N & E @ # U 1 &

1. How many vowels in the above arrangement are preceded by a symbol?

- A. One
- B. Two
- C. Three
- D. None
- E. Four

2. Which is the second element to the left of the sixth element from the right?

- A. &
- B. @
- C. N
- D. E
- E. 9

Directions(3-4): Find the missing element in the series given below:

3. ABD EFH IJL MNP QRT ?

- A. XYZ
- B. VWY
- C. WXZ
- D. UVX
- E. XZA

4. ACE ? MOQ SUW

- A. GIK
- B. FHJ
- C. GHJ
- D. GIL
- E. EFH

5. Refer to the numerical series given below and answer the following question:

435 224 786 823 902

When all the digits in each of the given numbers are arranged in ascending order, which number becomes the highest?

- A. 435

- B. 224
- C. 786
- D. 823
- E. 902

Answer Key

- 1. B
- 2. C
- 3. D
- 4. A
- 5. C

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