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**REASONING**

**ALPHANUMERIC  
SERIES**



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## Top 25 Questions Based on Alphanumeric Series

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

**F & G 6 7 + # A @ X \$ M ? H I 8 9 E O ® V ™ Q \* A S 5 & G @ M 2 O D 7 \* £ D J π**

**Q1. Which of the following will be 5th to the right of 11th element from the right end?**

- A. O
- B. \*
- C. 7
- D. D
- E. A

**Q2. How many symbol(s) are immediately preceded by a number and followed by an alphabet from the left end?**

- A. 1
- B. 0
- C. 4
- D. 3
- E. 2

**Q3. How many alphabets are immediately followed by a prime number?**

- A. 0
- B. 5
- C. 1
- D. 2
- E. 3

**Q4. How many alphabets are there in the series which are immediately followed and preceded by a symbol?**

- A. 6
- B. 7
- C. 4
- D. 3
- E. 2

**Q5. In which of the following options more than two meaningful words can be formed using the given letters?**

I) M, O, F, R

II) A, M, T, E

III) M, A, S, P

- A. Both I and III
- B. Both II and III
- C. All I, II and III
- D. Only III

E. Only II

**Directions (6-8) Study the following arrangement carefully and answer the questions given below:**

**X # E 9 U \* O 1 V & T 8 + M \$ A 4 I 7 & 2 @ P Q N % S 5 ! I 1 Z**

**Q6. How many perfect squares number(s) are between two vowels?**

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

**Q7. What is the sum of all the odd numbers in the series?**

- A. 23
- B. 22
- C. 18
- D. 37
- E. None of above

**Q8. How many symbol(s) in the given series are between a vowel and number?**

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

**Directions (9-11) Study the following arrangement carefully and answer the questions given below:**

**P \$ U \* 4 @ E 2 > I O 9 1 0 T X / 7 V % G & 6 K 8 F # ^ 5 A 3**

**Q9. How many numbers are there in the sequence which are immediately preceded by a symbol and immediately followed by an alphabet?**

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

**Q10. Four of the following five are alike in a certain way based on their positions in the above arrangement and hence form a group. Which term does not belong to that group?**

- A. E2>
- B. 6K8
- C. 4@E
- D. 0TX
- E. U4E

**Q11. How many Vowels are there that are immediately preceded by a symbol and immediately followed by a number?**

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

**Directions (12-16) Study the following arrangement carefully and answer the questions given below:**

**N 5 \* I A 9 \$ K # 8 3 B V 2 R P D H O U @ T G E C**

**Q12. Which of the following element is fourth to the left of fifteenth element from the right end?**

- A. K
- B. #
- C. \$
- D. 8
- E. 9

**Q13. How many such symbols are there in the above series each of which is immediately followed by a number and also immediately preceded by a consonant?**

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

**Q14. If we remove all the letters from this series, then which of the following element will be 7th from the left end?**

- A. 3
- B. 8
- C. 2
- D. 5
- E. None of these

**Q15. How many such consonants are there in the above arrangement each of which is immediately followed by a consonant and also immediately preceded by a symbol?**

- A. Two
- B. Four
- C. Three
- D. Five
- E. One

**Q16. If all the numbers are dropped from the given series, then which of the following element will be at the 10<sup>th</sup> position from the left end?**

- A. P
- B. R
- C. T
- D. #
- E. V

**Directions (17-21) Study the following arrangement carefully and answer the questions given below:**

**L K 1 C D 9 Z Y ^ P 2 N © K S 3 ↑ 5 M T ®**

**Q17. How many such digits are there in the series, each of which is immediately preceded as well as followed by letters?**

- A. Two
- B. Four
- C. Three
- D. Five
- E. None of these

**Q18. Which of the following element is exactly in the middle of 9 and 3?**

- A. 2
- B. Y
- C. P
- D. Z
- E. None of these

**Q19. Which of the following element is tenth to the left of the element which is fifth from the right end?**

- A. L
- B. K
- C. P
- D. Y
- E. Z

**Q20. If each symbol of the series is replaced with different digits from 1-9, which is not present in the given series, then what is the sum of all the digits?**

- A. 45
- B. 37
- C. 42
- D. 32
- E. None of these

**Q21. Complete the sequence:**

**L K C 9 Z ^ 2 N K ?**

- A. S3K
- B. 3SN
- C. 3↑M
- D. MTS
- E. None of these

**Directions (22-25) Study the following arrangement carefully and answer the questions given below:**

**573 401 326 274 185**

**Q22. If 2 is added to the last digit and 2 is added to the first digit of each of the numbers how many numbers thus formed will be divisible by 3?**

- A. None
- B. One

- C. Two
- D. Three
- E. None of these

**Q23. If all the digits in each of the numbers are arranged in descending order within the number, which of the following will be the second highest number in the new arrangement of numbers**

- A. 573
- B. 401
- C. 326
- D. 274
- E. 185

**Q24. What will be the resultant number if the third digit of the second lowest number is divided by the first digit of the second highest number**

- A. 0
- B. 4
- C. 2
- D. 1
- E. None of these

**Q25. If 100 is subtracted from each of the prime numbers and 100 is added to each of the composite numbers, then which of the following is the second lowest number?**

- A. 573
- B. 401
- C. 326
- D. 274
- E. 185

## Answer key with solutions

**1). C**

11<sup>th</sup> item from the right will be

F & G 6 7 + # A © X \$ M ? H I 8 9 E O ® V ™ Q \* A S 5 & G @ M 2 O D 7 \* £ D J π

5<sup>th</sup> item to the right of @ will be

F & G 6 7 + # A © X \$ M ? H I 8 9 E O ® V ™ Q \* A S 5 & G @ M 2 O D 7 \* £ D J π

Therefore, correct answer is 7 i.e. option (c).

**2). A**

Symbol that is/are immediately preceded by a number and followed by an alphabet from the left end

F & G 6 7 + # A © X \$ M ? H I 8 9 E O ® V ™ Q \* A S 5 & G @ M 2 O D 7 \* £ D J π

Therefore, the correct answer is 1 i.e. option (a).

**3). E**



Alphabets that are immediately followed by a prime number:

F & G 6 7 + # A © X \$ M ? H I 8 9 E O ® V ™ Q \* A S 5 & G @ M 2 O D 7 \* £ D J π

Therefore, the correct answer is option (e).

**4). B**

Number of alphabets that are there in the series which are immediately followed and preceded by a symbol

**F & G 6 7 + # A © X \$ M ? H I 8 9 E O ® V ™ Q \* A S 5 & G @ M 2 O D 7 \* £ D J π**

There are 7 such alphabets which are immediately followed and preceded by a symbol.

**5). E**

Words that could be form in each option are:

I) M, O, F, R (From, Form,)

II) A, M, T, E (tame, team, mate)

III) M, A, S, P (spam, maps)

Therefore, the correct answer is option (e)

**6). D**

X # E 9 U \* O 1 V & T 8 + M \$ A 4 I 7 & 2 @ P Q N % S 5 ! I 1 Z

There are two perfect square numbers in the series between two vowels.

Correct answer is option (d).

**7). A**

Odd numbers in the alphanumeric series X # E 9 U \* O 1 V & T 8 + M \$ A 4 I 7 & 2 @ P Q N % S 5 ! I 1 Z are 9, 1, 7, 5, 1

Sum = 9+1+7+5+1 = 23

Correct answer is option (a).

**8). C**

X # E 9 U \* O 1 V & T 8 + M \$ A 4 I 7 & 2 @ P Q N % S 5 ! I 1 Z

There is one symbol in the given series between a vowel and number.

Therefore, correct answer is option (c).

**9). A**

P \$ U \* 4 @ E 2 > I O 9 1 0 T X / 7 V % G & 6 K 8 F # ^ 5 A 3

so, three such numbers are there in the sequence.

**10). E**

Except U4E, all are consecutive elements in the given series.

**11). E**

P \$ U \* 4 @ E 2 > I O 9 1 0 T X / 7 V % G & 6 K 8 F # ^ 5 A 3

Only one such vowel is there in the sequence.

**12). C**

Given series is: N 5 \* I A 9 \$ K # 8 3 B V 2 R P D H O U @ T G E C

“\$” is fourth to the left of fifteenth element from the right end.

Hence, \$ is the correct answer.

**13). C**

Given series is: N 5 \* I A 9 \$ K # 8 3 B V 2 R P D H O U @ T G E C

Only one such symbol which is immediately followed by number and immediately preceded by a consonant i.e., K # 8

Hence, one is the correct answer.

**14). A**

Given series: N 5 \* I A 9 \$ K # 8 3 B V 2 R P D H O U @ T G E C

If we remove all the letters from the series then 3 will be seventh from the left end 5 \* 9 \$ # 8 3 2 @

**Hence, 3 is the correct answer.**

**15). E**

Given Series: N 5 \* I A 9 \$ K # 8 3 B V 2 R P D H O U @ T G E C

Only one such consonant is there which is immediately followed by another consonant and immediately preceded by a symbol i.e., @ T G.

Hence, one is the correct answer.

**16). B**

Given series: N 5 \* I A 9 \$ K # 8 3 B V 2 R P D H O U @ T G E C

If all the numbers are dropped in the given series, then R will be 10th from the left end.

N \* I A \$ K # B V R P D H O U @ T G E C

Hence, R is the correct answer.

**17). C**

Given series: L K 1 C D 9 Z Y ^ P 2 N © K S 3 ↑ 5 M T ®

Digits of which is immediately preceded as well as immediately followed by the letters are

L K 1 C D 9 Z Y ^ P 2 N © K S 3 ↑ 5 M T ®

So, there are three such digits each of which is immediately followed and immediately preceded by the letters Hence, three is the correct answer.

**18). A**

Given series: L K 1 C D 9 Z Y ^ P 2 N © K S 3 ↑ 5 M T ®

Element exactly between 9 and 3 is 2.

Hence, 2 is the correct answer.

**19). E**

Given series: L K 1 C D 9 Z Y ^ P 2 N © K S 3 ↑ 5 M T ®

Z is tenth to the left of fifth from the right element.

Hence, Z is the correct answer.

**20). A**

Given series: L K 1 C D 9 Z Y ^ P 2 N © K S 3 ↑ 5 M T ®



If all the symbols are replaced with numbers from 1-9, which is not present in the given series

L K 1 C D 9 Z Y 4 P 2 N 7 K S 3 6 5 M T 8

Hence, the sum of all the digits is 45

**21). C**

Given series: L K 1 C D 9 Z Y ^ P 2 N © K S 3 ↑ 5 M T ®

$L + 1 = K, K + 2 = C$

$C + 2 = 9, 9 + 1 = Z, Z + 2 = ^$

$^ + 2 = 2, 2 + 1 = N, N + 2 = K$

$K + 2 = 3, 3 + 1 = ↑, ↑ + 2 = M$

As per the pattern followed the next set of elements is 3↑M

Hence, 3↑M

**22). D**

If 2 added to the last digit and 2 is added to the first digit of each of the numbers

775 603 528 476 387

So, 603 528 and 387 are divisible by 3.

**23). A**

If all the digits in each of the numbers are arranged in descending order within the number, 753

410 632 742 851

the second highest number in the new arrangement of numbers is 753.

**24). D**

The third digit of the second lowest number is 4

The first digit of the second highest number is 4

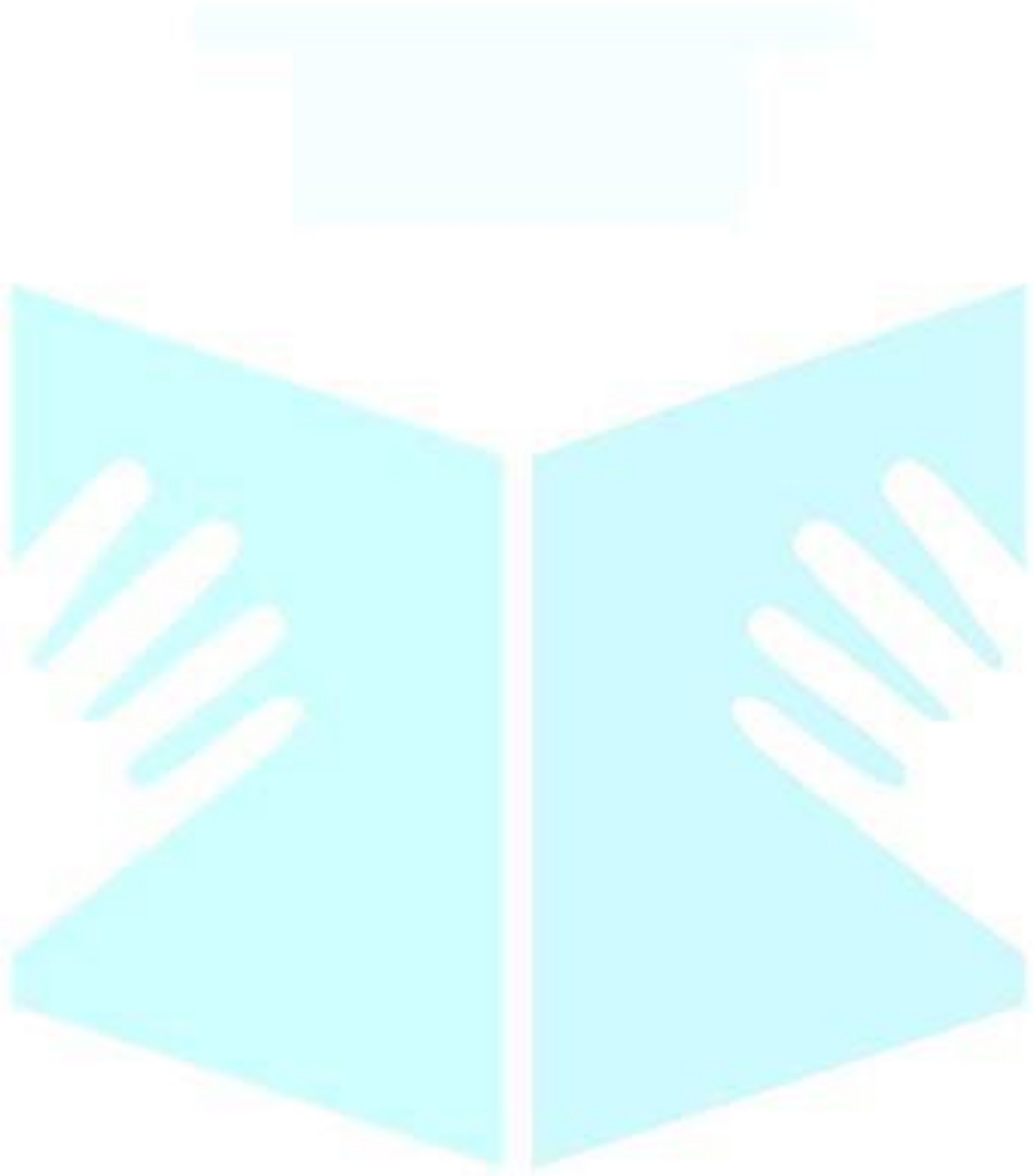
$4/4 = 1$

**25). B**

If 100 is subtracted from each of the prime numbers and 100 is added to each of the composite numbers

673 301 426 374 285

The second lowest number is 301.



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