



SSC-CGL

COMBINED GRADUATE LEVEL

REASONING



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ALPHABET TEST

Alphabet :

These are 26 letters in an English Alphabet,
A to Z.

Left →		← Right	
A	B	C	D E F G H I J K L M N O P Q R S T U V W X Y Z
1	2	3	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
26	25	24	23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

(when counted from Z to A)

Place value

Reverse order

First half →
(A to M)

1 A	2 B	3 C	4 D	5 E	6 F	7 G	8 H	9 I	10 J	11 K	12 L	13 M
Z	Y	X	W	V	U	T	S	R	Q	P	O	N

Reverse of the letters
M → 13
N → 13

Second half →
(N to Z)

E	J	O	T	Y
5	10	15	20	25

Remember 'EJOTY'

C	F	I	L	O	R	U	X
3	6	9	12	15	18	21	24

'CFILORUX'

Nowels →

A	E	I	O	U
1	5	9	15	21

when at the left of the left letter or right of the right letter is asked, we'll find - the difference of their sequence (for same side).

example :

which is the 7th letter from the left of the 10th letter from left in english alphabet?

sol: Left Left

$$10 - 7 = 3^{\text{rd}} \text{ letter}$$

3rd letter = C

when at the left of the right letter or right of the left letter is asked, we'll find the sum of their sequences (for two difference side's sequence)

example : i) which will be the 8th letters at the right from 12th letter from left.

sol: Left + Right

$$12 + 8 = 20^{\text{th}} \text{ letter} = T$$

T will be the 20th letter from left in the english alphabet.

b) which will be the letters in English Alphabet, which is 7th at left from 12th from right.

i) Here for 2 different sides we add sequence no. of the letters

i.e. Right + Left

$$12 + 7 = 19$$

So, 19th letter from Right side, we subtract 19 from 27.

$$27 - 19 = 8^{\text{th}}$$

8th letter from left side is 'H'

* When position of letter is asked from right side (Z), we minus from 27.

Like 1. R is 18 from left side then what is the position from right side.

Sol:

$$27 - 18 = 9$$

R is 9th from Right side in English Alphabet.

Example : which will be the letter in English alphabet, which is 6th at right from 22nd from right?

Sol:

Right - Right

$$22 \quad \quad \quad 6 = 16$$

So, 16th letters from right means

$$27 - 16 = 11^{\text{th}} \text{ from left. and}$$

K is the 11th letter from left.

Example : Which letter is 10th to Right of 19th letter from Right.

Sol: Right - Right

$$19 \quad \quad \quad 10 = 9$$

$$\text{So, } 27 - 9 = 18 = R$$

In short

- At the right from right] (-)
- At the left from left]
- At the left from Right] (+)
- At the Right from left]

Q. When a series of letter symbol digit is given :

Example : Study the following arrangement carefully and answer the following questions :

R4PIJMQ3%T@①UKSVIw\$Y2BEG#9DH@G*ZN

Q1. which is 6th at the left of 15th from the left in above arrangement.

Solⁿ:

Left	-	Left
15	-	6 = 9 th from left
So Answer = %.		

Q2: In the above arrangement ; how many numbers are such which are produced by consonant and not followed by a letter ?

Solⁿ: Answer = One

A 3 % → not letters.
↓ ↓
consonant Number

Q 3. Arrangement according to Dictionary : In this arrangement, we arrange the letters in the

Order in which they appear in the English alphabet.

For example :- 1. Choose the one that comes at the second place According to Dictionary.

- A. Bathing
- B. Banking
- C. Backing
- D. Banishing
- E. Barricading.

Sol^m: According to English Dictionary.

Backing , Banishing , Banking , Barricading , Bathing

1 2 3 4 5

So, banishing is at second place.

* 2. How many letter pairs in the word PARADISE are such pairs, which contain the same no. of letters between them as they have in the English Alphabet?

<u>Sol^m</u>	P	A	R	A	D	I	S	E
	19	1	21	1	4	9	22	5
	<u> </u>							

we have 3 letter pairs here.

* 3. If the 2nd half of the English alphabet is written in reverse order, then which letter will be the 13th at right from 8th from left?

Explanation :-

According to Question $A \rightarrow M \rightarrow N$

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

$$\text{Now } \underset{\Theta}{\cancel{L}} + \underset{\Theta}{\cancel{13}} = 21$$

So, 21 letters, 13 are from A to M, remaining Θ should be counted from N to Z, which is 'S'.



Solved Examples

Q.1 If the second half of the English Alphabet is reversed then which letter will be 4^{th} to the right of 20^{th} letter from the right?

sol: Right - Right

$$\Rightarrow 20 - 4 = 16^{\text{th}} \text{ from Right}$$

$$\text{So } 27 - 16 = 11^{\text{th}} \text{ from Left} = K$$

$$16^{\text{th}} \text{ from Right} = 11^{\text{th}} \text{ from Right}$$

Q.2 Which letter is in the middle between the 9^{th} letter from the right and 8^{th} letter from the left in the English Alphabet?

sol: A → Z

$$8^{\text{th}} \text{ from left} = H \quad 9^{\text{th}} \text{ from the right} (27-9=18=R)$$

$$\text{So middle letter} = \frac{8+18}{2} = 13^{\text{th}} = M.$$

Q.3 A E C B % 7 D \$ E B 5 C ? 3 D E 9 @ 2 #. If all the vowels are dropped from the above arrangement which of the following will be the 12^{th} from the left end of the above arrangement?

sol: After dropping vowels we have

C B % 7 D \$ B 9 C ? 3 D 9 @ 2 #

↑
Ans

Q.4 If the sequence of the English alphabet is reversed then which is 7^{th} to the left of second vowel from the right of English Alphabet in the new series?

sol: Second vowel from the right of reversed English alphabet is E and 7^{th} letter to the left of E in the new series is L.

Q.5 How many pairs of letter are there in the word 'HORIZON' which have as many letters between them in the word as in the English Alphabet?

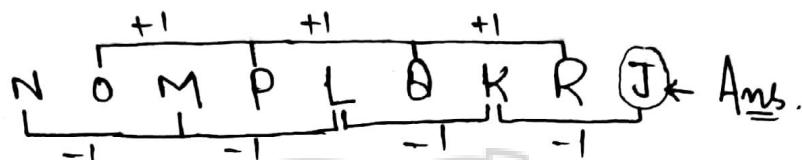
Sol:



\therefore = 4 pairs of letters.

Q.6 What is the next letter of the following sequence N, O, M, P, L, Q, K, R, ?

Sol:



Q.7 If the first and second letters in the word 'MISFORTUNE' were interchanged, also the third and the fourth letters, the fifth and sixth letters and so on, which letter would then be the eighth letter counting to your left?

Sol:

New sequence = I M F S R O U ^{8th} T E N

Ans. = T.

Q.8 Arrange the given words in alphabetical order and choose the one that comes in the middle?

Sol: According to alphabet order →

shout, skirt, slaughter, specify, straight

middle word = slaughter.

Q.9 If NAMO = 172 and OM = 56, then SHIVAY = ?

Sol:

$$N A M O = 14 + 1 + 13 + 15 = 43 * 4 = 172$$

$$O M = 15 + 13 = 28 * 2 = 56$$

$$\begin{aligned} S H I V A Y &= 19 + 8 + 9 + 22 + 1 + 25 = 84 * 6 \\ &= 504 \end{aligned}$$

Directions(10-14): study the following arrangement of numbers, letters and symbols carefully and answer the questions given below.

R @ 29 T V A Y 5 © # J I P 8 Q \$ E 3 * H % 6 W 4 ! δ U Z

Q. 10 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 the group?

J P ©, E * Q, W ! %, 9 V @, 1 # δ

sol: $\begin{array}{c} \text{J P C} \\ \boxed{\begin{array}{cc} +2 & -4 \end{array}} \\ \text{E * Q} \\ \boxed{\begin{array}{cc} +2 & -4 \end{array}} \\ \text{W I \%} \\ \boxed{\begin{array}{cc} +2 & -4 \end{array}} \\ \text{9 V @} \\ \boxed{\begin{array}{cc} +2 & -4 \end{array}} \\ \text{1 # 8} \\ \boxed{\begin{array}{cc} -2 & +16 \end{array}} \end{array}$

Ans 1 # 8

Q. 11 Which of the following is the fifth to the right of the 19th element from the right end?

P, V, W, S, Q

sol: $19 - 5 = 19^{\text{th}}$ element from the right end = Q.

Q. 12 How many such numbers are there in the given arrangement, each of which is immediately preceded by the consonant and immediately followed by a symbol?

sol: Y S @ → 1 pair

Q. 13 If the positions of the last 18 elements in the given arrangement are reversed, which will be the 17th from the left end?

sol: After arrangement

R @ 29 T V A Y S @ # 2 U S I 4 W G % H * 3 E \$ Q O P I J

Ans: W

Q. 14 How many such vowels are there in the given arrangement, each of which is either immediately followed by a symbol?

sol:

3 Vowels = E, I and U

Q. 15 How many meaningful words can be formed from the 3rd, 4th, 6th and 8th letter of the word 'CONTROVERSIAL'?

sol:

C O N T R O V E R S I A L

↓ ↓ ↓ ↓
3rd 4th 6th 8th

N, T, O, E → 2 words : Note, TONE
can be formed