



Social Security Assistant

NATIONAL TESTING AGENCY

Volume – 2

REASONING AND COMPUTER

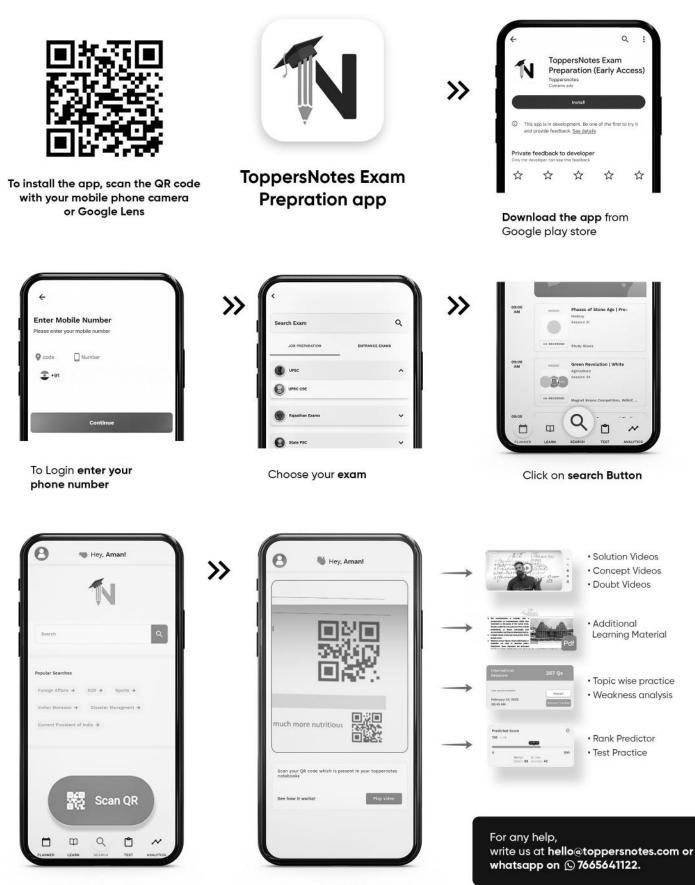


EPFO SSA (Social Security Assistant)

S.No.	Chapter	Page No.
	Reasoning	
1.	Series	1
2.	English Alphabet Test	10
3.	Coding – Decoding	20
4.	Number Ranking	27
5.	Blood Relation	36
6.	Direction & Distance	46
7.	Inequality	53
8.	Syllogism	59
9.	Machine Input – Output	70
10.	Puzzle	84
11.	Seating Arrangement	92
12.	Statement and Assumption	100
13.	Statement and Conclusion	107
14.	Statement and Argument	113
15.	Data Sufficiency	121
	Computer	
1.	Introduction to Computer	127
2.	Computer Working System, Input, Output and Storage	129
3.	Computer System	132
4.	Computer Organization	134
5.	Computer Languages	136
6.	Computer Software	137
7.	Operating System	138
8.	Microsoft Windows, Its Different Versions and Its Basic	139
	Components	
9.	Microsoft Word	140
10.	Microsoft Power Point	141
11.	Microsoft Excel	143
12.	Internet	147
13.	Computer Networking	149
14.	Network Topology	150
15.	Web Browser	152

16.	Search Engine	152
17.	Email	153
18.	Database	153
19.	Hacking	153
20.	Virus	155
21.	Information and Communication Technology	157
22.	Social Networking Sites	165
23.	Extension of File	167
24.	Word Abbreviation	168

Dear Aspirant, Thank you for making the right decision by choosing ToppersNotes. To use the QR codes in the book, Please follow the below steps :-



Click on Scan QR

Choose the **QR from book**



Series

The series test series has to be studied carefully to find out whether this series is following the order/rule or not.

The questions asked under this test can be classified into the following categories.

- 1. Digit series
- 2. Alphabet series
- 3. Frequency Series of Digits/Characters

There are a few things to keep in mind while doing chain test.

- A. First try to play the whole chain.
- B. If the chain does not work, then we run it by laughing.
- C. At the very end run the alternate series

1. Digit series -

In this, a series of marks is given in the questions asked. This series is based on addition, subtraction, multiplication, division, square, square root, cube, cube root etc.

Type - (i) Finding the wrong term in the series.

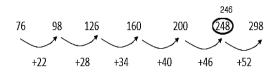
In the series sequence, a wrong digit is added in place of the digit appearing at a particular place. For this, first of all it should be known that which term is not changing according to that rule, that is the wrong term.

Ex.1 Which number is missing in the following number series? 76, 98, 126, 160, 200, 248, 298

(A) 248	(B) 200
(C) 160	(D) 298

- Ans. (A)
- **Sol.** After observing the above series carefully, we find that the sixth term of the series is inappropriate

Because the number to be added to each term is 6 digits more than its first number.



So instead of 248, there will be 246.

Ex.2 Which number in the following series is such that it is inappropriate in the series?

5, 3, 6, 10, 9, 12, 17, 15, 18, 23

(A) 6 (B) 9

Ans. (D)

Sol. After observing the above series carefully, we find that the series is decreasing and increasing in the order of -2, +3, +5, -2, +3, +5

In the above series, 11 should come after the digit '6'. Hence the wrong number in the series is 10.

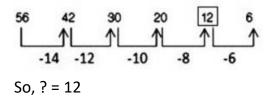
Directions: Question (1-7) Find the missing number in the following series.

Q.1 56, 42, 30, 20, ?, 6

(A) 15	(B) 12
(C) 18	(D) 14

Ans. (B)

Explanation-



	Topper Unlea	Sholes sh the topper in you
Q.2	1, 6, 15, ?, 45, 66, 91	Q.6
	(A) 25 (B) 26	
	(C) 27 (D) 28	
Ans.	(D)	Ans.
Expla	nation-	Expla
	1 6 15 28 45 66 91 $+5 +9 +13 +17 +21 +25$ $+4 +4 +4 +4 +4$ So, ? = 28	Q.7
Q.3	1, 3, 7, 13, 21, 31, 43, ?	Ans.
	(A) 55 (B) 57	Expla
	(C) 59 (D) 61	
Ans.	(B)	
Expla	nation-	
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	So, ? = 57	N
Q.4	0.5, 2, 4.5, 8, 12.5, ?	Comp
	(A) 17 (B) 16	Unde
	(C) 16.5 (D) 18	partic
Ans.	(D)	the q
		are ex
	1.5 2.5 3.5 4.5 ^{5.5}	the qu
	1.5 2.5 5.5 4.5	numb
Ехріа	nation-	
	So, ? = 18	Ex.3
Q.5	3, 6, 18, 21, 63, 66, ?	
	(A) 181 (B) 160	
	(C) 147 (D) 198	
Ans.	(D)	
Expla	nation-	Ans.
	3 + 3 = 6, 6 × 3 = 18	Sol.
	18 + 3 = 21, 21 x 3 = 63	
	So, 63 + 3 = 66	
	? = 66 × 3 =198	

6 510, 322, 404, ? (A) 422 (B) 371 (C) 629 (D) 819 s. (A) planation – There are even numbers in the sequence. So, ? = 422 7 32, 58, 92, 134, ? (A) 184 (B) 194 (C) 156 (D) 169 s. (A) planation-32 58 92 134 184 ΛI \wedge +26 +34 +42 +50 +8 +8+8 So, ? = 184 Type – (II)

Completing the series -

Under this, in the given series sequence, a particular place is left blank or is denoted by the question mark (?), then the candidates are expected to find that sequence and mark the question mark (?). Select the appropriate number to come in place of.

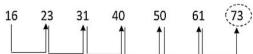
- Ex.3 Which of the given number will come in place of question mark in the series? 16, 23, 31, 40, 50, 61, ?
 - (A) 81 (B) 83
 - (C) 77 (D) 73

Ans. (D)

Sol. On observing the above series, we find that the series is increasing in the order of +7,+8,+9,+10......

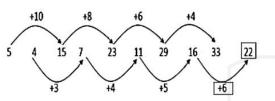
(Th





Therefore, the appropriate number to come in place of the question mark will be 73.

- **Ex.4 Which number will come in the question place in the above series?** 5a 4a 15a 7a 23a 11a 29a 16a 33a g
 - (a) 11 (b) 22
 - (b) 29 (d) 34
- Ans. (B)



Therefore, the appropriate number to come in place of the question mark will be 22.

Type – III based on series rule

There are 2 types of rules of the category based on the rule of the first category.

- 1. Arithmetic series
- 2. Geometric series
- Arithmetic Series An arithmetic series is called a series in which the difference of two consecutive terms is equal.

The number obtained by subtracting the preceding term from a term of an A.P. is called 'transition'.

If there is the first post of the parallel category and the post is of the post, then there will be an parallel category.

Hence the nth term of the A.P. $T_n = a + (n-d)$

(1) d (where, a is the first term and d is the transition)

- Ex.5 What will be the 10th term of 1st series 3, 5, 7, 9..... (A) 15 (B) 20 (C) 12 (D) 21 Ans. (D) Sol. 10th term Tn = a + (n-1) d $T10 = 3 + (10 - 1) \times 2$ T10 = 3 + 18T10 = 21Hence the 10th term is 21
- Ex.6 If the first term of an arithmetic sequence is 5, the second term is 3 and the last term is 80, then find the number of terms.
- (A) 24 (B) 23 (C) 26 (D) 29 Ans. (C)
- Sol. a = 5, d = 3, Tn = 80, n = ? Tn = a + (n - 1)d 80 = 5 + (n - 1) 3 (n - 1) = 80 - 5/3 n - 1 = 25 n = 25 + 1n = 26

Hence the number of posts is 26

2. Geometric Series - Such a series in which the ratio of two consecutive terms is same is called 'Geometric Series'. This ratio is called the 'common ratio' of the geometric series. The 'common ratio' of a geometric series is obtained by dividing a term by its previous term, i.e. t2/t1=t3/t2=t4/t3= ··· =tn/tn-1=proportionate t1,t2,t3,t4 The middle term is the average of both the terms.

t2 - t1 = t3 - t2 = t4 - t3



		Unle.	ash the topper in you		
lf	the first term of a	geometric series is a	Ans.	(D)	
ar	nd the proportion	n is r, then the nTH	Expla	nation-	
term of that geometric series			Except the num	nber pair 13-37, in all	
Tr	n = a. r^n-1			the other num	ber-pairs, the second
				number is th	ree times the first
Ex.7	What is the 6t	h term of the series		number.	
	3,9,27,81,?			10 × 3 = 30	
	(A) 729	(B) 243		11 × 3 = 33	
	(C) 1681	(D) 1747		50 × 3 = 150	
Ans.	(A)			but,	
Sol.	First Term a = 3			13 × 3 – 2 = 37	
	Common ratio d	=9/3=3			
	6th termT6 = a.	r^n-1	Q.2	-	questions, select the
	= 3. 3^6 - 1			odd number p	pair from the given
	= 3 × 3^5			alternatives.	
	= 3 × 243 = 729		Ť	(A) 18 : 37	(B) 24 : 47
	= 3 × 243 = 729			(C) 32 : 65	(D) 48 : 97
	So the 6th term	is 729	Ans.	(B)	
			Expla	nation-	
Ex.8	What will be t	he 10th term of the		Number pair 2	24: Except 47, in all
	series 7, 14, 28,	?		other number	-pairs, the second
	(A) 3216	(B) 2736		number is one	more than twice the
	(C) 2684	(D) 3584		first number.	
Ans.	(D)		sh t.	18 × 21= 37	
Sol.	First Term a=7			32 × 21 =65	
	Common ratio=:	14/7=2		48 × 21= 97	
	10th term			but,	
	T10 = a. r^n−1			24 × 2-1=47	
	= 7 × 2^10-1		2	Alphabat caria	
	= 7 × 2^9		3.	Alphabet serie	
	= 7 × 512			-	eries of letters related
	= 3584			•	lphabet is given in the
	Hence the 10th	term is 3584		-	n which one or two
	_	N/			ted, or is represented
	Туре	e-IV	F 0		ark (?) in that place.
Q.1	In the following	questions, select the	Ex.9		e in place of question
	odd number p	air from the given		mark (?) in the	given series?
	alternatives.			ЈКМРТ?	

alternatives. (A) 10.30 (B) 11.33

(C) 50.150 (D) 13.37

(A) X

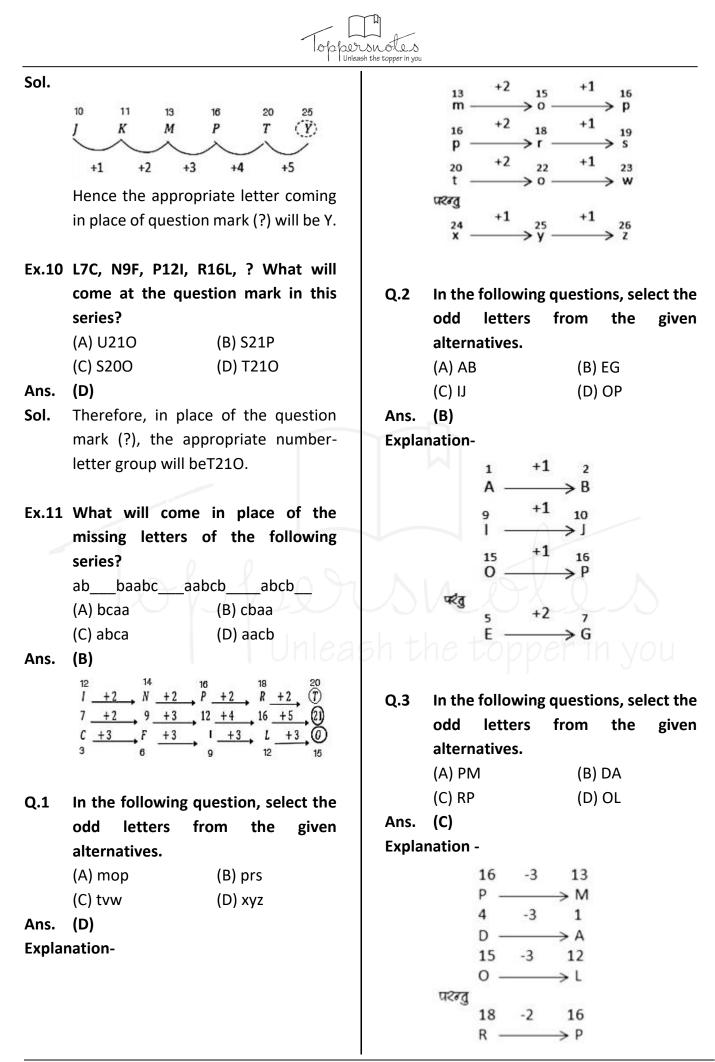
(C) Y

(C)

Ans.

(B) W

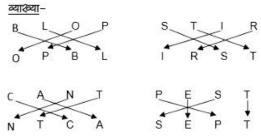
(D) none





Q.4 In the following questions, select the odd letters from the given alternatives.
 (A) BLOP-OPBL
 (B) STIR-IRST
 (C) CANT-NTCA
 (D)

Explanation-



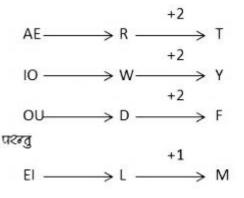
Q.5 In the following questions, select the odd letters from the given alternatives.

(A) EI-LM	(B) AE-RT
(C) IO-WY	(D) OU-DF

Ans. (A)

Explanation –

'Letter-pair' is a letter gap between the letters of the second unit in all other letter-pairs except 'EI-LM'. The first unit has a continuous vowel.



Q.6 In the following questions, select the odd letters from the given alternatives.

(A) DEGJ	(B) QRTW
(C) YZBE	(D) JKNQ

Ans. (D)

Explanation -

- Q.7 In the following questions, select the odd letters from the given alternatives.

(A) ACDF	(B) 100P
(C) HIVW	(D) FGKL

Ans. (A) Explanation -

3. Frequency series of digits or letters -

Under this, the numbers or letters appear repeatedly in a certain sequence, thus forming a series of numbers / letters in which one or two digits in the middle or end or

Alphabets are lost and candidates have to find out the missing number/letters.

Ex.12 02487503001024875030010

4,8

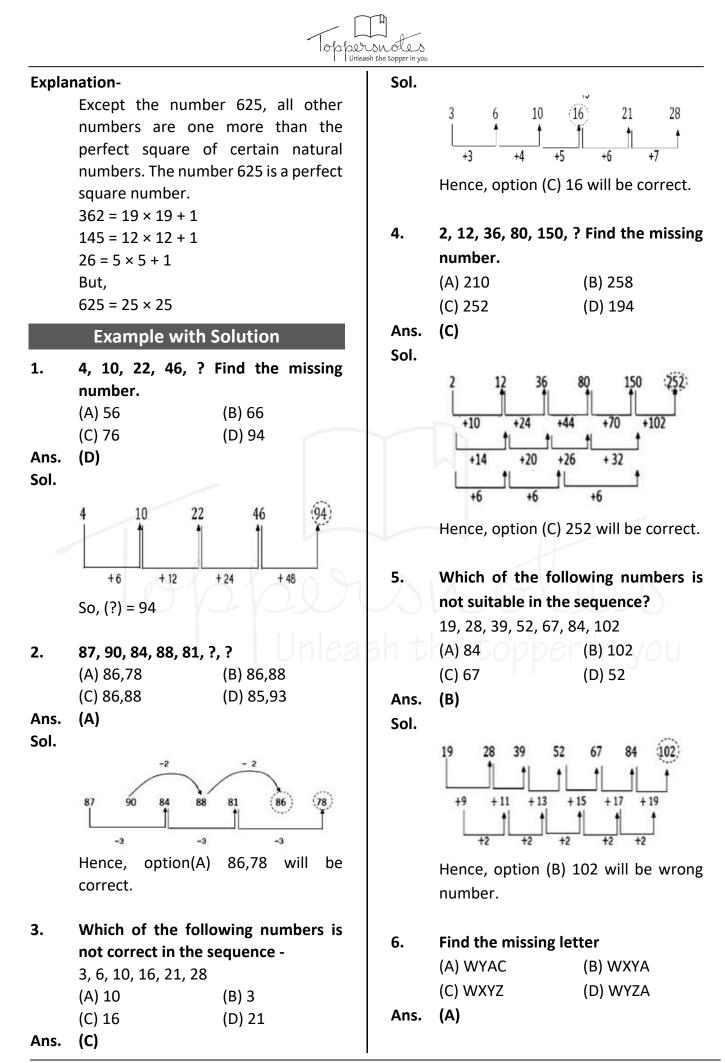
Ans. (A)

Sol. After looking carefully at the given series of numbers, we find that 02487503001 is appearing repeatedly in the sequence.

So the next two digits will be 2 and 4.



	-) Find the missing term in	Q.5	AAT, BBE, CCF	
the fo	ollowing se	ries-		(A) DDA	(B) DDB
Q.1	Y, S, N, J,	G, ?		(C) DDC	(D) DDD
	(A) F	(B) E	Ans.	(A)	
	(C) H	(D) I	Expla	ination-	
Ans.	(B)			A +1 B +1	+1
Expla	nation-			$\begin{array}{ccc} A \stackrel{+1}{\rightarrow} & B \stackrel{+1}{\rightarrow} & 0 \\ A \stackrel{+1}{\rightarrow} & B \stackrel{+1}{\rightarrow} & 0 \end{array}$	- → [] +1
	Hence, th	ne appropriate term coming		$A \rightarrow B \rightarrow ($	C →D -15
	in place o	f (?) will be E.		$T \xrightarrow{-15} E \xrightarrow{-15} P$	$\rightarrow \mathbf{A}$
Q.2	NZ. OY. P	X, QW, RV, ?		Hence, the ap	propriate term to come
	(A) FS	(B) SU		in place of (?)	will be DDA
	(C) UF	(D) TU			
Ans.	(B)	(2) ! 0	Q.6	BC, GH, LM, ?	
	ination-			(A) PQ	(B) RS
		he appropriate term will		(C) QR	(D) OP
		blace of (?) will be SU.	Ans.	(C)	
			Expla	ination-	
Q.3	A, E, I, ?,	Q		+5 +5 +	5
	(A) O	(B) M		$B \rightarrow G \rightarrow L -$ +5 +5	→[<u>Q</u>] +5
	(C) U	(D) L		$C \rightarrow H \rightarrow M$	→R
Ans.	(B)			Therefore, the	e appropriate term that
Expla	ination-		\bigcirc	comes in place	e of (?) will be QR.
	$A \stackrel{+4}{\rightarrow} E \stackrel{+4}{\rightarrow}$	$I \xrightarrow{+4} M \xrightarrow{+4} Q$			
	Hence, th	e appropriate term to come	Q.7	AC, FH, KM, P	
	in place o	of (?) will be M.		(A) UX	(B) TV
				(C) UW	(D) VW
Q.4		edfcfe?	Ans.	(C)	
	(A) h	(B) g	Expla	ination-	
	(C) f	(D) d		$A \xrightarrow{+5}{\rightarrow} F \xrightarrow{+5}{\rightarrow} K \xrightarrow{+}$	5 + 5
Ans.	(B)			$C \xrightarrow{+5} H \xrightarrow{+5} M$	
Expla	nation-			$C \rightarrow H \rightarrow M$	$\rightarrow K \rightarrow W$
	+1			Hence, the ap	propriate term to come
	a —	$\rightarrow b \longrightarrow c$		in place of (?)	will be UW.
	+1 d ——	$e \longrightarrow e \longrightarrow f$			
	<u>u</u> +1	, statute	Q.8	In the followi	ng questions, select the
	<u>c</u> —	\rightarrow d \longrightarrow e		odd numbe	er from the given
	+1			alternatives.	
	<u>e</u> —	$\rightarrow f \longrightarrow g$		(A) 362	(B) 145
	Honco th	ne appropriate term coming		(C) 26	(D) 625
	nence, u				



oppersure Unleash the topper in you

	I Unicasi	n the topper in you	
Sol.	23 25 1 3 23 24 25 1 23 24 25 26 W Y A C W X Y A W X Y Z $\downarrow \downarrow $	10.	120, 60, 30, 15, ? Find the missing number. (A) 7.5 (B) 5.7 (C) 3.0 (D) 8.5
	²³ ²⁵ ²⁶ 1 W Y Z A L Hence, option (A) would be correct.	Ans. Sol.	(A) 120 60 30 15 7.5
7.	4E, 8I, 13N, 19T, ? Find the missing		$\div 2 \qquad \div 2 \qquad \div 2 \qquad \div 2 \qquad \div 2$
	term.	11.	4, 10, ? 82, 244, 730
	(A) 26U (B) 26A		(A) 218 (B) 28
	(C) 26Z (D) 25X		(C) 24 (D) 77
Ans.	(B)	Ans.	(B)
Sol.		Sol.	
8. Ans.	$\frac{4}{4} \underbrace{E}_{4} \underbrace{B}_{4} $		4 10 28 82 244 730 (x3-2) (x3-2) (x3-2) (x3-2) Hence, option (B) will be correct.
Sol.	abcd/bcda/cdab/dabc/abcd Hence, option (A) would be correct.		
9.	15, 30, 60, 120, ? Find the missing number. (A) 250 (B) 245		
	(C) 240 (D) 260		
Ans.	(C) (D) 200		
Sol.	X = ℓ		
	$15 \qquad 30 \qquad 60 \qquad 120 \qquad 240 \\ \underbrace{\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$		



English Alphabet Test

The English alphabet test is based on the English letters or alphabet being arranged in a certain format. In this test, questions are solved based on the formation of words by the selected letters, finding the letters in the pair of letters and between 2 letters, etc.

Some important facts related to the English alphabet.

1. Capital/Small letters of the English alphabet

Block letters	ABCDEFG
	HIJKLM
Lowercase	abcdef
letters	
	ghijklm
Block letters	NOPQRST
	UVWXYZ
Lowercase	n opqrst
letters	

- 2. Vowels and consonants of the English alphabet
 - (i) Vowel There are 5 vowels in the English alphabet, which are as follows -
 - A, E, I, O, U
 - (ii) Consonants There are 21 consonants in the English alphabet, which are as follows –

B, C, D, F, G, H, J, K, L, M, N, P, Q, R, S, T, V, W, X, Y, Z

3. The place of letters in the English -

Alphabet is the first 13 and the last 13 letters of the alphabet are called the first and second half of the alphabet respectively. This location depends on two sequences.

(i) First and second half of straight sequence - In this sequence the letters from A to M are placed in the first half and the letters from N to Z are called the second half.

Left to Right

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

 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26

 Second Half

(ii) The first second half of the opposite

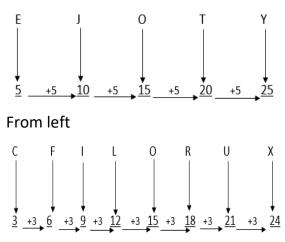
order - In this sequence the letters from Z to N are called the first half and the letters from M to A are called the second half.

Left to right

Ζ	Y	Х	W	۷	U	Т	S	R	Q	Ρ	0	Ν
1	2	3	4	5	6	7	8	9	10	11	12	13
+					Fire	st Ha	lf -					•
М	L	К	(J	Ŧ	н	G	F	Ε	D	С	В	А
14	15	16	17	18	19	20	21	22	23	24	25	26
•				5	ecor	nd ha	lf .					-

4. Finding the Position Order of Letters by EJOTY and CFILORUX

From left





Орро	osite L	.etter -	Each	letter in the	e English
alpha	abet	has	an	opposite	letter.
А	Z	1+2	6 = 27		
В	Y	2+2	5 = 27		
С	х	3+2	4 = 27		
D	w	4 + 2	3 = 27		
E	v	5+2	2 = 27		
F	U	6+2	1 = 27		
G	т	7+2	0 = 27		
н	S	8+1	9 = 27		
1	R	9+1	8 = 27		
J	Q	10 +	17 = 27	S.	
К	Ρ	11 +	16 = 27	13	
L	0	12 +	15 = 27	92	
М	N	13 +	14 = 27	65	

If the letter of the English alphabet whose opposite letter is to be found, then the corresponding number of that letter is subtracted from 27. The number obtained after subtracting is the corresponding number of the opposite letter.

Finding the letter to the left and right of letters

 Whatever is on our right is the right of the same letters and whatever else is on our left, is the left of those other letters. like –



Question Types

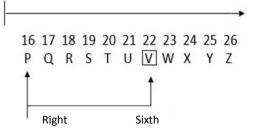
Type-I Questions Based on Alphabet Test

- 1. The position of the letters in the direct sequence shall be -
- Ex.1 Which letter is 6th to the right of the sixteenth letter from the left in the alphabet 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 ? (a) F (b) Q

(4)1	(5) 4
(c) U	(d) V

Ans. (d)





16th letter from left in English alphabet = P 16th Hence 6th letter to the right of P = V

Alternative Method

 n^{th} letter to the right of m^{th} letter from left in English alphabet = $(m+n)^{th}$ letter from left.

m = 16 and n = 6

 $(16+6)^{th}$ letter from left = 22^{nd} letter from left = V

2. Position of letters in reverse order

Ex.2 If the English alphabet is written in reverse order, then which letter will be 13th to the left of the 3rd letter from the right?

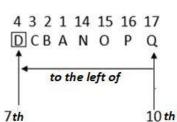
Ans. (b)

- Sol. n^{th} letter to left of m letter from your right in reverse order of English alphabet = $(m + n)^{th}$ letter from right. Here, m = 3 and n = 13 = $(3+13)^{th}$ letter from right = 16^{th} letter from right = P Ans.
- 3. Position of letters in the first half of the reverse order

Under this, the first half of the letters of the English alphabet i.e. letters from A to M are written in reverse order and the remaining half of the letters are written as they are.

- Toppersuoles Unleash the topper in you
- **Ex.3** If the first half of the English alphabet is written in reverse order, then which letter will be to the left and seventh letter of the tenth letter from your right?
 - (a) C (b) E
 - (c) D (d) J
- Ans. (c)
- Sol. According to question,

13 12 11 10 9 8 7 6 5 M L K J I H G F E



18 19 20 21 22 23 24 25 26 R S T U V W X Y Z

from the right

The 10th letter from the right is Q and the seventh letter to the left of the letter Q is D. So required letter = D

- 4. Position of letters in reverse order of multiple letter segments
- Ex.4 If the first four letters of the English alphabet are written in reverse order, then 5 letters also in reverse order, 5 letters also in reverse order, again 6 letters also in reverse order, again 6 letters also in reverse order, again 16 letters are also written in reverse order and remaining letters are also written in reverse order, then which letter will be the seventh letter to the left of the eighth letter from the right? (a) O (b) L
 - (c) N (d) M

Ans. (d)

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

The eighth letter from the right is S and the seventh letter to the left of the letter S is M. So required letter = M

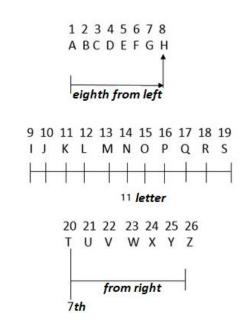
5. Number of letters between 2 letters -

Ex.5 How many letters are there in the middle of the eighth letter from the left and the seventh letter from the right in the English alphabet?

(d) 11

Ans. (d)

Sol. As per Question





Hence, the eighth letter from the left is H and the seventh letter from the right is T and there are 11 letters in between these two.

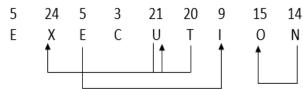
- 6. Same position of letters when arranged alphabetically -
- **Ex.6** If each letter in the word CADMP is arranged alphabetically, then the positions of how many letters will remain unchanged.
 - (a) 1 (b) 2 (c) 3 (d) 4
- Ans. (c)

Sol.

Root Word	С	A	D	Μ	Р	
Alphabetical Order	А	С	D	М	Р	
Hence such let	ters	are [). M.	and	Ρ.	

Type-2 Letter- Pair Based Question

If there are as many letters between two letters of a word as there are between them in the English alphabet, then the pair thus formed between those two letters is called a letter pair.



- **Ex.7** How many such pairs of letters are there in the given word EXECUTION, which have as many letters between them in the word as there are between them in the English alphabet?
 - (a) 1 (b) 2
 - (c) 3 (d) more than 3

Ans. (d)

Sol. According to question So the required letter pair is UX, TU EI and NO i.e. 4.

Type - 3 Word Formation and Alphabet Arrangement

- (i) Changing the letters of a meaningful word
- Ex.8 If the letters of the first and second, third and fourth, fifth and sixth and so on are interchanged in the words, then what will be the tenth letter when counted from its right?
 - (a) T (b) N

Ans. (b)

- Sol. The word formed by interchanging the letters of the given word COMMUNICATIONS
 - O C M M N U C I T A O I S N

10 th from the right

Hence, the required alphabet = N

- (ii) Making meaningful words from selected / consecutive letters of a semi-complete word
- Ex.9 If any one meaningful word can be formed from the first, third, fifth and eighth letters of the word SHARE HOLDING, then what will be its second letter? If no such word can be formed, give the answer 'X' and if more than one word can be formed, give the answer 'Y'.

(a) L	(b) E
(c) S	(d) X
(e) Y	
(e)	

Ans.



- **Sol.** The word given according to the question,

New word SEAL = SALE, SEAL = 2 Meaningful word Two meaningful words formed from it are SALE and SEAL, so option Y will be correct.

- **Ex.10** How many meaningful words with four or more letters can be formed from the letters of the word DIALOGUE?
 - (a) 5 (b) 7
 - (c) 9 (d) 8
- Ans. (c)
- **Sol. 9** words with four or more letters can be formed from the letters of DIALOGUE.
 - For Example -

DIAL, GOAL, GOAD, GILD, GLUE, GUILD, LOUD, GUIDE, GUILE etc.

- (iii) Arrange the following numbers of different letters in such a way that a meaningful word is formed.
- **Ex.11** Arrange the numbers of different letters given below in such a way that a meaningful word is formed.
 - G T A E N M
 1 2 3 4 5 6
 (a) 1, 3, 2, 6, 4, 5
 (b) 6, 3, 5, 1, 4, 2
 (c) 1, 3, 2, 5, 4, 6
 (d) 6, 3, 1, 5, 4, 2
- Ans. (d)
- **Sol.** On arranging the given letters in a meaningful order, the word MAGNET

is formed which is obtained by arranging the numbers in the order 6, 3, 1, 5, 4, 2.

Type - 4 Letter Group Based Questions

Under this, some groups of three or four letters are given in the questions asked. The answer is to be found by arranging these letter groups according to the instructions given in the question.

- Ex.12 If the letter S is put before them in all the given words, then how many words in the new arrangement will make meaningful English words?
 - (a) Only SHE
 - (b) ANT and JUG
 - (c) Only OLD
 - (d) TIN and JUG
 - (e) Only TIN

Ans. (c)

- **Sol.** The following is the word in the new arrangement.
 - SHE, SOLD, SANT, STIN, SJUG
 - Hence in the given words, the letter S is preceded by only one meaningful word SOLD.

TYPE-5 RULE BASED ON INSTRUCTION-

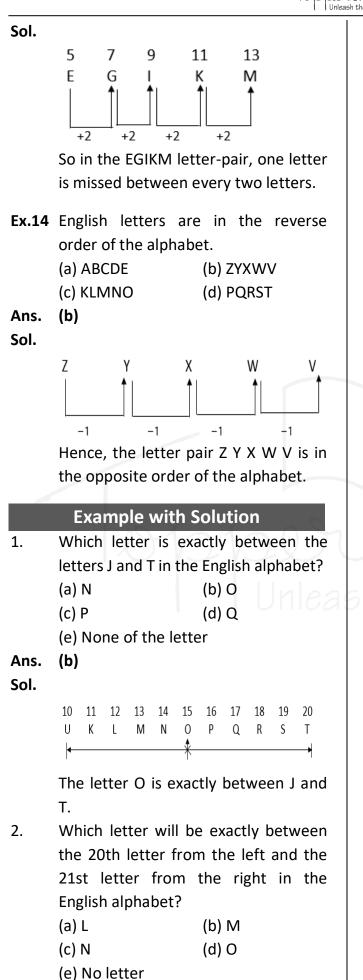
In this type of questions, related to English alphabets are given. Following these rules, it is to be seen that in which option the given letter is following the group.

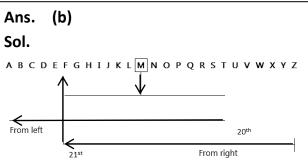
Ex.13 A letter is missing between two letters.

(a) EGIKM(b) MOQTU(c) MPQTU(d) MNOPQ

Ans. (a)







The 20th letter from the left is T and the 21st letter from the right is F and the letter M is exactly in between these two.

- 3. If the letters of the word BEAUTIFUL are rearranged and written alphabetically, then how many such letters will be there whose position will remain unchanged?
 - (a) 1
 - (b) 3
 - (c) 2
 - (d) more than three
- Ans. (a)
- **Sol.** According to the question,

Root Word BEAUTIFUL Alphabetical Order ABEFILTUU

Hence the position order of only one letter remains unchanged.

4. If each vowel of the word DOMAINS is changed to the letter that follows it according to the English alphabet and each consonant is changed to the letter that precedes it according to the English alphabet and then all the letters are alphabetically (from left to left) right), then which of the following will be at the third position from the right in the sequence so formed?

(e) B