

Alphabet & Number Arrangement

INTRODUCTION

As we know that English alphabet is a group of English letters, hence the problems based on alphabet are the problems based on English letters. Problems under this segment are very important part of the questions asked in various competitive exams to be conducted for the purpose of requirement of officers and clerks. Particularly for getting job in banking sector, this type of questions can not be ignored. This is the reason that we will discuss every aspect of such problems so that students do not face any kind of difficulty while solving the problems related to English alphabet.

TYPES OF PROBLEMS :

- (1) General series of alphabet
- (2) Random series of alphabet
- (3) Words in alphabetical order
- (4) Problems of word formation
- (5) Problems of letter gap

Now we will discuss all the six types of problems one by one in detail.

(1) General Series of Alphabet

EXAMPLE 1. Which of the following options is seventh to the right of the 13th letter from the left in a forward Alphabet series?

- (a) R (b) T (c) V
(d) W (e) None of these.

Sol. Now the question is how to solve it?

1st of all we will write the forward alphabet series as given below:

A	B	C	D	E	F	G	H	I	J	K	L	M
↑												↑
13 th letter from left												
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7						

From above series it is clear that M is the 13th letter from left and to the right of M (13th letter from left), T is the 7th letter. Hence (b) is the correct option.

Here, we have solved this problem with a general method. But this type of problem can also be approached through quicker method that will help you save some extra consumed time.

Shortcut Approach

- ↗ If both the directions are same then subtraction of numbers takes place.
- ↖ If the directions are opposite then addition of numbers takes place.

SHORTCUT METHOD FOR ABOVE EXAMPLE :

Now, for solving the sample question we apply this rule. As we want to find out the 7th letter to the right of the 13th letter from the left, the directions are opposite and thus rule (b) will be applied here. Hence we add $7 + 13 = 20$. Therefore, the answer will be 20th from left. Also, 20th from left less mean $26 - 20 + 1 = 7^{\text{th}}$ from right. We can easily see.

∴ 20th letter from left = T

Also 7th letter from right = T

∴ This method also gives the answer choice (b).

After solving the sample question, you must have noticed that the above mentioned trick is to calculate the actual position of the required letter before going to search for it.

OTHER VARIATIONS OF SUCH TYPE OF PROBLEMS

EXAMPLE 2. If alphabet series is given in backward or reverse order, then find out the eighth letter to right of O?

- (a) H (b) G (c) U
(d) X (e) None of these

Z Y X W V U T S R Q P O

Sol.

N	M	L	K	J	I	H	G	F	E	D	C	B	A
1	2	3	4	5	6	7	8						

It's clear (b) is the correct answer.

Note : Even with the forward alphabet series we can solve this problem because the letter which is eight to the right of O in the reverse order alphabet series must be eight to the left of O in forward alphabet series.

EXAMPLE 3. If the 1st half of the alphabet is written in reverse order, then find out the letter that would be 20th letter from the right.

- (a) G (b) F (c) D
(d) H (e) None of these

Sol. As the 2nd half is not reversed, the 1st 13 letters would be same when we do counting from right. But not letters coming after 13th will be actually from the left. Hence 14th letter from right would be A; 15th would be B; 16th would be C and we move further in the same manner. Hence from left which is G.
∴ Option (a) is the correct answer.

REMEMBER

- I:** While solving the problems based on alphabet, you must have in your mind the exact positions of every letters of alphabet in forward order as well as in backward or reverse order as given below:

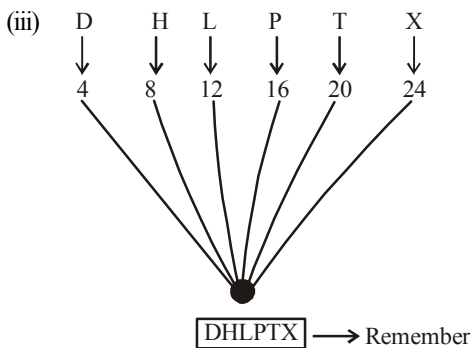
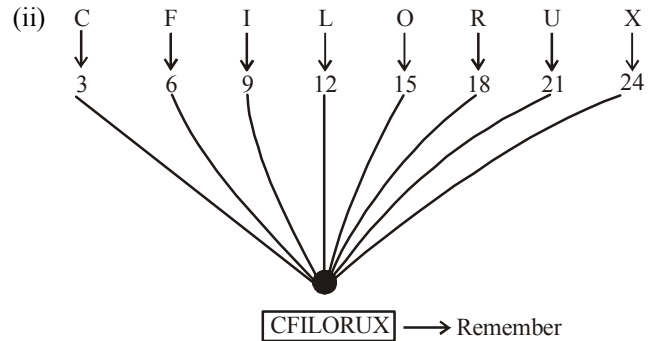
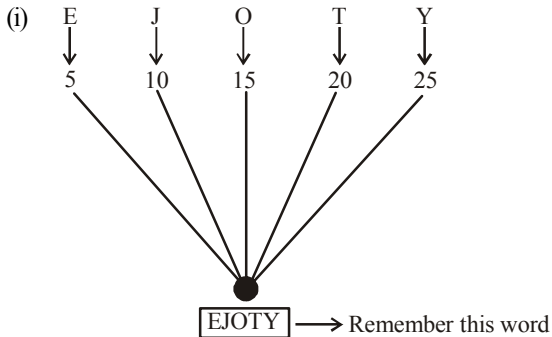
Letters positions in forward alphabetical order:

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

Letters positions in backward or reverse alphabetical order:

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

- II:** Just keep in mind, the following positions of the letters in the English alphabet (forward order).



- III:** m th element to be counted from left to right of a series of x characters is equal to $(x + 1 - m)$ th element to be counted from right to left of that series. This rule can be better illustrated by an example which is given below:

Let us take the forward order alphabet series,

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

As we know that English alphabet has 26 characters, hence, we have $x = 26$.

Now suppose, we have to find out the position of K in the above given series counting from right to left.

Position of 'K' in the English alphabet from left to right is 11. Thus $m = 11$

∴ Position of K in the above given series from right to left would be $(26 + 1 - 11) = 16$

Note : I, II & III given under extra tips are very important as they are very helpful in solving problems based on general series of alphabet. Readers are advised to take them as a rule.

HOW TO SOLVE PROBLEMS WHEN LETTERS ARE DROPPED OR DELETED AT REGULAR INTERVALS?

EXAMPLE 4. If every 3rd letter from left to right of English alphabet is deleted, then what would be the 6th letter from left in the new series obtained?

Sol. General method:

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

Here, deleted letters have been encircled and we find the new series as given below:

A	B	D	E	G	H	J	K	M
1	2	3	4	5	6	7	8	9

N	P	Q	S	T	V	W	Y	Z
10	11	12	13	14	15	16	17	18

It is clear, that 6th letter from left in the new series is H.

Shortcut Approach

No doubt, that general method gives the correct answer. But we need to save extra consumed time and this is the reason we go for a quicker approach.

As per the example, every third letter is deleted in the original series. It does mean that we are left of two letters after every deletion. Here, '2' is the key digit for us and we have to find out 6th letter from the left in the new obtained series. Therefore, we have to find a digit which is just less than 6 but divisible by 2. For this question the digit just less than 6 and divisible by 2 is 4. Now we follow the operation given below:

$$6\text{th letter from the left in the new series} = 6 + \frac{4}{2}$$

= 8th letter from the left in the original series, which is it.

In the same manners, we can find out any letter at a particular position in the new obtained series.

$$\therefore 16\text{th letter from the left in the new obtained series} = 16 + \frac{14}{2}$$

$$= 23\text{rd letter from the left in the original series which is W.}$$

18th letter from the left in the new obtained series

$$= 18 + \frac{16}{2}$$

$$= 26\text{th letter from the left in the original series which is Z.}$$

The sample example can be asked in following way also:

"If every third letter from left to right in English alphabet is dropped (or deleted), then find out the 13th letter from right in the new obtained series".

To solve this, we find first of all the number of letters in the new obtained series.

As every third letter is dropped, hence we have

$$\left(26 - \frac{26}{3}\right) = 26 - 8 = 18 \text{ letters in the new series.}$$

Point to be noted here that we divide 26 by 2 as every 3rd letter

is dropped and after division we take approximate value of $\frac{26}{3}$

in round figure (approximate value of $\frac{26}{3}$ will be 8).

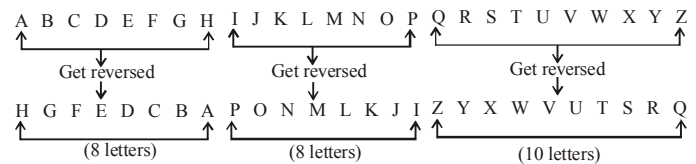
As per the example we have to find out 13th letter from right in the newly obtained series. This loss mean $(18 + 1 - 13) = 6\text{th}$ letter from left which is H.

Note: This quicker approach can also be applied to the dropping of every 4th, 5th, 6th, 7th..... and so on letters from left to right at regular intervals.

HOW TO SOLVE PROBLEMS BASED ON THE BACKWARD (REVERSED) ALPHABET SERIES?

While solving problems based on general series of alphabet, we come across the various cases. In some cases we see that whole alphabet series is reversed but in some other cases 1st half of the series is reversed, or second half of the series is reversed or many segments of the alphabet series are reversed.

Let us take a case when a forward order alphabet series get reversed in three segments. In 1st segment 8 letters get reversed; in 2nd segment the next 8 letters get reversed and in the 3rd segment the remaining 10 letters get reversed. Just see the presentation given below:



Now if you are asked to find out the 4th letter from left in the new obtained series, then through general method, we simply do counting from left in the new series and find out our required answer as 'E' because 'E' is at 4th position from left in the new obtained series. But while solving such type of problems, we have to do some time consuming formalities like (a) writing the original series (b) writing and reversing the letters of original series as per the question says and (c) counting them to get the required answer. Such time consuming processes can be avoided if we go through "Extra Tips III" and solve the question with shortcut approach.

Shortcut Approach

It is clear that 4th letter from left in the new obtained series falls into first segment which has 8 letters. Hence 4th letter in the new obtained series = $(8 + 1 - 4) = 5\text{th}$ letter from the left in the original series. As we know that exact position of 5th letter from left in the original alphabet series is the position of E. Hence E is our required answer. If we have to find out 18th letter from left in the new obtained series, then that will be $16 + (10 + 1 - 2) = 25\text{th}$ letter from left in the original alphabet series (why?) which is Y.

In fact, while finding out 18th letter, we can easily see that 18th letter is the 2nd letter of 3rd segment and hence it will be not affected by 1st two segments having 8 letters each. In other words to find out 18th letter in the new obtained series, we have to find out the 2nd letter in the 3rd segment. This is the reason we find out the 2nd letter in the 3rd segment and then add the 16 letters of 1st two segment to get the 18th letter in the new obtained series. From this, we find that 18th letter from left in the new obtained series is the 25th letter from left in the original series. As 25th letter from left in the original series is Y. So (Y) will be our required answer.

Readers are advised to practice such type of problems as you much as possible and after a certain time will notice that you have got a skill to solve such problems in a few seconds and that too, without the use of pen and paper.

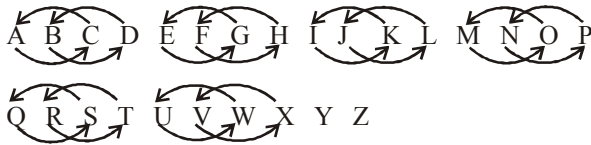
HOW TO SOLVE IF POSITIONS OF LETTERS ARE INTERCHANGED?

There is no any rule for such type of problems. Only the hard practice can given you a skill to solve such questions in a quick time.

EXAMPLE 5. If A and C interchange their places, B and D interchange their places, F and H interchange their places and so on, then which letter will be 5th to the left of Q?

- (a) P (b) N (c) M
(d) T (e) None of these.

Sol. As per the question the interchanges take place as follows:



Here we can see that Q interchanges with S. Then to left of Q, the 5th letter would be P because P interchanges with N.

How to find the Middle Letter?

Case I : Remember that if m th and n th letter from the left in the English alphabet are given then

$$\text{Middle letter} = \left(\frac{m+n}{2} \right) \text{th letter from the left.}$$

EXAMPLE 6. Which letter will be midway between 8th letter from the left and 16th letter from the left in the English alphabet?

Sol. Here $m = 8$ and $n = 16$

$$\text{then middle letter} = \frac{8+16}{2} = \frac{24}{2} = 12\text{th letter from left in the alphabet} = \text{L}$$

Case II: Remember that if m th and n th letter from the right in the English alphabet are given then

$$\text{Middle letter} = \left(\frac{m+n}{2} \right) \text{th letter from right}$$

$$= \left[26 + 1 - \left(\frac{m+n}{2} \right) \right] = \left[27 - \left(\frac{m+n}{2} \right) \right] \text{th letter from the left in the English alphabet.}$$

EXAMPLE 7. Which letter will be midway between 8th letter from the right and 16th letter from the right in the English alphabet.

$$\text{Sol. Middle letter} = \left[27 - \left(\frac{8+16}{2} \right) \right] \text{th letter from left in the alphabet.}$$

$$\text{or middle letter} = (27 - 12) = 15^{\text{th}} \text{ letter from left} = 0$$

Note : In case I and case II $(m + n)$ must be divisible by 2.

Case III : Remember that if the m th letter from the left and the n th letter from the right are given then middle letter

$$= \left[\frac{(m-n)+27}{2} \right] \text{th letter from the left in the alphabet.}$$

EXAMPLE 8. Which letter will be midway between 8th letter from the left and 15th letter from the right?

Sol. Here $m = 8$ and $n = 15$.

$$\text{Then middle letter} = \left[\frac{(8-15)+27}{2} \right] = \left[\frac{20}{2} \right] = 10^{\text{th}} \text{ letter from left in the English alphabet} = \text{J.}$$

Note : In case III $(m - n) + 27$ must be divisible by 2.

Ranking Arrangement

Condition: To use below Table break the statement into two parts by 'OF' and the rank to be calculated from the last rank provided.

FIRST HALF STATEMENT	SECOND HALF STATEMENT	ACTION TO BE TAKEN
LEFT	LEFT	SUBTRACTION
RIGHT	RIGHT	SUBTRACTION
LEFT	RIGHT	ADDITION
RIGHT	LEFT	ADDITION
TO	FROM	NO ACTION
FROM	FROM	CONDITIONAL*

CONDITIONAL* means when the two ranks are added then subtract 1 rank to the addition or when the two ranks are subtracted then add 1 to the subtraction.

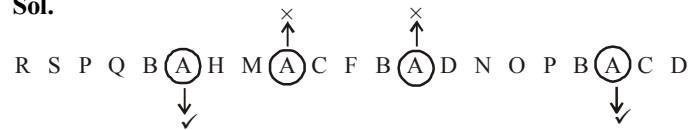
(2) Random Series of Alphabet

This series is not in the proper sequence and letters take their position in the series in jumbled manner. Further, there is also a possibility that all the 26 letters of English alphabet are not available in the series. Even same letters may be repeated in the series.

EXAMPLE 9. How many letters in the following series are immediately preceded by B but not immediately followed by D?

R S P Q B A H M A C F B A D N O P B A C D.

Sol.



$\therefore$ Only the two times A fulfill the given condition and those A have been marked with the correct sign (✓). Those not fulfilling the condition have been marked with the cross (X). $\therefore$ Required answer is 2.

(3) Words in Alphabetical Order

In such type of questions, words are given and you have to find out which word will appear in the dictionary 1st, 1st or 2nd or 3rd or 4th etc.

EXAMPLE 10. Which of the following words will come 2nd in the dictionary?

- (a) Name (b) Shame (c) Fame
(d) Came (e) None of these.

Sol. 'Came' comes 1st in the dictionary.

'Fame' comes 2nd in the dictionary

'Name' comes 3rd in the dictionary

'Shame' comes 4th in the dictionary

$\therefore$ (c) is the required answer.

EXAMPLE 11. Find out the word coming last in the dictionary.

- (a) Large (b) Long (c) Lust
(d) Love (e) None of these

Sol. Step I: In this question the 1st letter of all the words are same. Hence, from 1st letter we can not find out this arrangement in the dictionary.

Step II: We move on the 2nd letter of the words and find that 2nd letter of Large is 'a'; 2nd letter of Long is 'o'; 2nd letter of Lust is 'u' 2nd letter of Love is 'o'. Now its clear that in the dictionary 'a' comes before 'o' & u. Hence the word 'Large' comes 1st in the dictionary.

Step III: Now we will compare the remaining three words 'Long', Lust and 'Love'. Here, when we see the 2nd letter of these words we find 'o' comes before 'u' in the dictionary. Hence we can come to the conclusion that the words 'Long' and 'Love' will not definitely be the last word. Thus we came to our required answer that the word 'Lust' or option (c) will definitely come last in the dictionary.

∴ Option (c) will be our answer. But if we want to know the 2nd and 3rd word also then we can move on to the next step.

Step IV: In the words 'Long' and 'Love', 1st two letters are common. Therefore, to know the arrangement of these two words in the dictionary we move on to the third letter. Third letter in the word 'Long' is 'n' and in 'Love' the third letter is 'v'. As 'n' comes before 'v' alphabetically, the word 'Long' will come before the word 'Love' in the dictionary. Hence, it is clear that 'Long' comes 2nd and 'Love' comes 3rd in the dictionary.

Step V: Find arrangement : (1) Large (2) Long (3) Love (4) Lust.

(4) Problems of Word Formation

In such problems, a word is given and you have to find out the number of words to be formed out of some letters drawn from that particular word.

EXAMPLE 12. 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

Now from letters N T O and E, two words 'NOTE' and 'TONE' can be formed.

(5) Case I : Problems of Letter Gap**EXAMPLE** 13. How many pairs of letters are there in the word 'DREAMLAND' which have as many letters between them as in the English alphabet?

Sol. Here, we are asked to solve problem according to English alphabet. In this case we have to count both ways. It does mean that we have to count from left to right and from right to left. Let us see the following presentation:



The above presentation makes it clear that the required pairs of letters are 4. (Pairs: DA, EA, ML and LN)

Case II:**EXAMPLE** 14. How many pairs of letters are there in the word 'DREAMLAND' which have the same number of letters between them as in the English alphabet in the same sequence.

Sol. Here we are asked to solve problems according to the alphabetical sequence. It does mean that we have to do counting only from left to right. Let us, see the following presentation:



The above presentation makes it clear that the required pair of letters is only 1 (Pair: LN)

EXERCISE

Directions (Qs. 1-5): Answer these questions referring to the symbol-letter-number sequence given below:

1. If every third letter from the following English alphabet is dropped, which letter will be seventh to the right of eleventh letter from your 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

- (a) V (b) U
(c) K (d) I
(e) None of these
2. If the first half of the English alphabet is reversed and so is the second half, then which letter is seventh to the right of twelfth letter from the left side?

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) S (b) V
(c) U (d) T
(e) None of these
3. In the alpha-numerical sequence/series given below, how many numbers are there which are (i) immediately followed by a letter at the even place in English alphabet and (ii) not immediately preceded by a letter at the odd place in the English alphabet?

W 2 N 1 V 9 G 2 P 4 X 6 K 7 R 1 T 8 L 3 H 5 Q 8 U 2 J

- (a) 3 (b) 5
(c) 2 (d) 4
(e) None of these
4. If the positions corresponding to the multiples of five in the following alphabet are replaced by symbols and that of multiples of seven by digits, how many letters will be left?

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) 15 (b) 18
(c) 21 (d) 17
(e) None of these
5. If second half of given sequence of alphabets is reversed then which of the following letter will be 9th letter to the right of 7th letter from your left?

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

Directions (Qs. 6-10): Study the following arrangement carefully and answer the questions given below:

J 1 # P 4 E K 3 A D \$ R U M 9 N 5 I % T V * H 2 ÷
F 6 G 8 Q W

6. How many such numbers are there in the above arrangement, each of which is either immediately preceded by or immediately followed by a vowel or both?
- (a) None (b) One
(c) Two (d) Three
(e) More than three

7. Which of the following is exactly in the middle between the tenth from the left and the eighth from the right end in the above arrangement?
- (a) M (b) N
(c) I (d) 5
(e) None of these
8. If the order of the last fifteen elements in the above arrangement is reversed, which of the following will be the ninth to the right of the eleventh element from the left end?
- (a) G (b) %
(c) 8 (d) 3
(e) None of these
9. How many such consonants are there in the above arrangement, each of which is immediately preceded by a symbol but not immediately followed by either a number or a vowel?
- (a) None (b) One
(c) Two (d) Three
(e) More than three
10. Four of the following five are alike in a certain way based on their position in the above arrangement and so form a group. Which is the one that **does not** belong to that group?
- (a) A \$ E (b) % V N
(c) 2 F V (d) 4 K 1
(e) 6 Q ÷

Directions (Qs. 11-14): Study the following information and answer the questions given below:

25 boy-scouts bearing names from A to Y were standing in a row. The teacher wanted to select various teams from among them. He gave them random numbers from 3 to 8 as shown below:

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
4 4 6 3 5 4 3 3 5 6 7 5 8 5 8 3 3 8 4 8 6 5 4 6 6

11. If he decides to pick up those exclusive pairs of adjacent boys whose numbers if totalled turn out to be exactly 12, how many such pairs would be available?
- (a) Nil (b) Six
(c) Five (d) Four
(e) None of these
12. If he decides to pick up those boys who bear even numbers and have boys bearing even numbers on both sides, how many boys will be picked up?
- (a) One (b) Two
(c) Three (d) Four
(e) None of these
13. If he decides to pick up those boys who bear odd numbers but have boys bearing 7 and/or 8 on either side, how many boys will be picked up?
- (a) Four (b) Three
(c) Two (d) One
(e) None of these

14. If he decides to pick up only those boys who bear even numbers but have on both sides students bearing odd numbers, how many boys will be picked up?
 (a) Six (b) Five
 (c) Four (d) Three
 (e) None of these

Directions (Qs.15-17): Study the following five numbers and answer the questions given below.
 517 325 639 841 792

15. What will be last digit of the third number from top when they are arranged in descending order after reversing the position of the digits within each number?
 (a) 7 (b) 3
 (c) 5 (d) 2
 (e) None of these
16. What will be the middle digit of the second lowest number after the position of only the first and the second digits within each number are interchanged?
 (a) 5 (b) 2
 (c) 7 (d) 3
 (e) None of these
17. What will be the first digit of the second highest number after the position of only the second and the third digits within each number are interchanged?
 (a) 7 (b) 2
 (c) 8 (d) 9
 (e) None of these

Directions.(Qs.18-22): Study the following elements (letters, digits and symbols sequence) to answer the questions given below:

AB7CD9ZY★P2M©KS3↑5NT@

Note: 'A' is to the left of 'B' and '@' is to right of 'T'.

18. If each symbol of the above sequence is replaced with a letter and each digit is replaced with a new symbol, then how many letters will be there in the sequence?
 (a) 16 (b) 17
 (c) 4 (d) 12
 (e) None of these
19. How many such digits are there in the sequence each of which is immediately preceded as well as followed by letters?
 (a) None (b) One
 (c) Two (d) Three
 (e) None of these
20. Which of the following letters is exactly midway between the letters falling between 'C' and '5'?
 (a) Y (b) K
 (c) P (d) M
 (e) None of these
21. If each symbol of the above sequence is replaced with the digits from '1' to '9' which are not there in the sequence, then what will be the sum of all digits? [Each symbol should be replaced with a different digit].
 (a) 19 (b) 45
 (c) 55 (d) 60
 (e) None of these
22. If the first element from the left interchanges place with the tenth element from the left, similarly, second with ninth, third with eighth, fourth and seventh, and so on, then which

of the following will be seventh to the left of eight element from the right?

- (a) 9 (b) 7
 (c) D (d) C
 (e) None of these

Directions (Qs. 23-27): Study the following arrangement of letters/symbols and answer the questions given below:

DFJT\$#PRZQ*CMAB@HKLS+?

23. How many such symbols are there each of which is immediately preceded by a symbol and immediately followed by a letter?
 (a) One (b) Two
 (c) Three (d) Four
 (e) None of these
24. If the order of the first half of the arrangement is reversed which of the following letters/symbols will be the fifth to the left of the fifteenth letter/symbol from the left?
 (a) * (b) Q
 (c) T (d) J
 (e) None of these
25. If all the symbols of the above sequence are denoted by 7 and each letter is denoted by 5, then what will be the sum of all the elements of the sequence?
 (a) 142 (b) 138
 (c) 132 (d) 122
 (e) None of these
26. If all the symbols from the above sequence are dropped, which letter will be seventh to the right of twelfth letter from the right?
 (a) H (b) B
 (c) K (d) A
 (e) None of these
27. Which of the following is related to 'FT' in the same way as 'DJ' is related to '?' S' ?
 (a) L+ (b) KS
 (c) HL (d) +L
 (e) None of these

Directions (Qs. 28-32): Study the following arrangement carefully and answer the questions given below:

M£5TRE3\$PJ17D12NA4FH6*U9#VB@W

28. If the positions of the first fourteen characters of the above arrangement are reversed, which of the following will be the twenty-second from the right end?
 (a) J (b) I
 (c) P (d) 3
 (e) None of these
29. How many such numbers are there in the above arrangement, each of which is immediately preceded by a vowel and immediately followed by a consonant?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three
30. What should come in place of the question mark (?) in the series given below based on the above arrangement?
 R3£PIE?AFI
 (a) DNJ (b) D2I
 (c) INI (d) N4D
 (e) None of these

31. How many such consonants are there in the above arrangement each of which is immediately preceded by a symbol but not immediately followed by a number?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three
32. Which of the following is the fifth towards right of the seventeenth from the right end?
 (a) \$ (b) 4
 (c) 7 (d) A
 (e) None of these

Directions (Qs. 33-35): Study the following letters/number series carefully and answer the questions given below it.

W 3 7 H J Q T 5 1 2 G K 4 F P T 6 L B E 9 4 D M R 8 2 V

33. If the numbers from the first half of the sequence are dropped, which letter/number will be fifth to the right of sixth letter/number from the left?
 (a) 6 (b) T
 (c) Q (d) J
 (e) None of these
34. How many such letters are there in the sequence which are immediately followed by a number and immediately preceded by a letter ?
 (a) Four (b) Two
 (c) Three (d) Five
 (e) None of these
35. Four of the following five are alike in a certain way on the basis of their position in the sequence and so form a group. Which is the one that does not belong to the group ?
 (a) WVH (b) JMI
 (c) HRT (d) 78Q
 (e) 59G

Directions (Qs. 36-38): Study the following arrangement of digits, letters and symbols and answer the questions given below:

M K 3 \$ R E 5 F % T U J * 8 P H B N 2 I S # A 3 7 D 4

36. How many such consonants are there each of which is either immediately preceded by a number and/or immediately followed by a symbol?
 (a) None (b) One
 (c) Two (d) Three
 (e) None of these
37. Four of the following five are alike in a certain way based on the above arrangement and form a group. Which is the one that **does not** belong to that group?
 (a) 3RF (b) %U8
 (c) 8H2 (d) I#7
 (e) H8U
38. If the positions of F and B are interchanged, similarly, the positions of U and A are interchanged, how many such vowels will be there each of which will be both immediately preceded and immediately followed by a consonant?
 (a) None (b) One
 (c) Two (d) Three
 (e) None of these

Directions (Qs. 39-40): Study the following arrangement carefully and answer the questions given below:

BA5D%RI FH6#V9\$3E7G1÷2MKX8UFWZN

39. Which of the following is exactly in the middle of the eleventh element from the left end and the fifteenth element from the right end?
 (a) V (b) \$
 (c) 7 (d) E
 (e) None of these
40. Four of the following five are alike in a certain way based on their position in the above arrangement and so form a group. Which is the one that does not belong to that group?
 (a) EG\$ (b) RFD
 (c) 127 (d) XUM
 (e) H#
41. If it is possible to make a meaningful word with the second, the fourth, the sixth and the ninth letters of the word PERMEABILITY, which of the following will be the first letter of that word? If no such word can be formed give 'N' as the answer. If only two such words can be formed give 'D' as the answer and if more than two such words can be formed give 'Z' as the answer.
 (a) M (b) L
 (c) N (d) D
 (e) Z
42. Find the two letters in the word EXTRA which have as many letters between them in the word as in the alphabet. If these two letters are arranged in alphabetical order which letter will come second?
 (a) E (b) X
 (c) T (d) R
 (e) A
43. If it is possible to make a meaningful word with the third, the fifth, the sixth and the eleventh letters of the word MERCHANDISE, using each letter only once, which of the following will be the third letter of that word? If no such word can be formed, give 'X' as answer and if more than one such word can be formed, mark 'T' as answer.
 (a) H (b) E
 (c) R (d) X
 (e) T
44. If it is possible to make a meaningful word with the first, the fifth, the ninth and the eleventh letters of the word PENULTIMATE, using each letter only once, which of the following will be the third letter of that word? If no such word can be made give 'N' as the answer and if more than one such word can be formed give 'D' as the answer.
 (a) E (b) P
 (c) L (d) D
 (e) N
45. How many such pairs of letters are there in the word CREDIBILITY each of which has only one letter between them in the word as also in the alphabet?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three
46. If the letters in the word POWERFUL are rearranged as they appear in the English alphabet, the position of how many letters will remain unchanged after the rearrangement?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three

47. How many such pairs of letters are there in the word PRODUCTION each of which has as many letters between them in the word as in the English alphabet?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three
48. If it is possible to make only one meaningful word with the fourth, the fifth, the seventh and the eleventh letters of the word PREDICTABLE, which of the following will be the first letter of that word? If only two such words can be formed, give 'P' as the answer; if three or more than three such words can be formed, give 'Z' as the answer; and if no such word can be formed, give 'X' as the answer.
 (a) D (b) T
 (c) P (d) Z
 (e) X
49. If it is possible to make a meaningful word from the first, the fourth, the eighth, the tenth and the thirteenth letters of the word ESTABLISHMENT, using each letter only once, the last letter of that word is your answer. If more than one such word can be formed write 'P' as your answer and if no such word can be formed write 'X' as your answer.
 (a) X (b) P
 (c) T (d) E
 (e) M
50. How many meaningful words can be formed by replacing only the consonants in the word BREAK by the next letter in the English alphabet and keeping the vowels unchanged?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three
51. How many such pairs of letters are there in the word ORIENTAL each of which has as many letters between them in the word as in the English alphabet?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three
52. The positions of the first and the eighth letters in the word WORKINGS are interchanged. Similarly, the positions of the second and the seventh letters are interchanged, the positions of the third letter and the sixth letter are interchanged, and the positions of the remaining two letters are interchanged with each other. Which of the following will be the third letter to the left of R after the rearrangement?
 (a) G (b) S
 (c) I (d) N
 (e) None of these
53. If only the consonants in the word MEAT are changed in such a way that each of them becomes the next letter in the English alphabet and the remaining letters are kept unchanged, then how many meaningful words can be formed with the new set of letters using each letter only once in a word?
 (a) None (b) Two
 (c) Three (d) One
 (e) None of these
54. If the first and the second letters of the word UNPRECEDENTED are interchanged with the last and the secondlast letters, and similarly the third and the fourth letters are interchanged with the third and the fourth letters from the last respectively, and so on, then what will be the 7th letter to the right of the 3rd letter from the left?
 (a) P (b) R
 (c) E (d) C
 (e) None of these
55. In the word 'PRESENCE', how many such pairs of letters are there as have as many letters between its units in the word as there are in the English alphabet?
 (a) One (b) Two
 (c) Three (d) Four
 (e) None of these
56. If the letters in each of the following five words are first rearranged in the alphabetical order and then the groups of letters so formed are rearranged as in a dictionary, which word would have its group of letters in the MIDDLE among the five?
 (a) Code (b) Lack
 (c) Meet (d) Deaf
 (e) Road
57. How many such pairs of letters are there in the word 'CORPORATE' each of which has as many letters in the same sequence between them in the word as in the English alphabet?
 (a) None (b) One
 (c) Two (d) Three
 (e) More than three
58. If it is possible to make only one meaningful word with the second, the seventh, the tenth and the eleventh letters of the word 'TRADITIONAL', what will be the second letter of the word? If no such word can be formed, give 'X' as the answer. If only two such words can be formed give 'Y' as the answer and if more than two such words can be formed give 'Z' as the answer.
 (a) L (b) I
 (c) X (d) Y
 (e) Z
59. How many pairs of letters are there in the word SPONTANEOUS which have number of letters between them in the word one less than the number of letters between them in English alphabet?
 (a) Five (b) One
 (c) Four (d) Two
 (e) Three
60. If each of the vowels i.e., A, E, I, O & U alongwith the 3rd letter to its right in the alphabet are taken out and arranged one after the other in the same order followed by the remaining letters of the alphabet, which of the following will be 5th to the left of the 19th letter from the left in the new arrangement?
 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) G (b) H
 (c) J (d) W
 (e) None of these
61. If it is possible to make a meaningful word from the third, sixth, eighth and eleventh letters of the word 'DISTINGUISH' using each letter only once, first letter of the word would be

- your answer. If more than one such word can be formed, your answer would be 'M' and if no such word can be formed, answer is 'X'.
- (a) N (b) S
(c) H (d) M
(e) X
62. The letter of the word AYDFLRIGEN are in disorder. If they are arranged in proper order, the name of a vegetable is formed.
What is the last letter of the word so formed ?
(a) L (b) A
(c) G (d) R
(e) D
63. If it is possible to make a meaningful word with the second, the seventh, the ninth and the eleventh letters of the word ORGANISATION, which of the following will be the third letter of that word? If no such word can be formed, give 'X' as the answer and if more than one such word can be made, given answer as 'M'.
(a) S (b) R
(c) T (d) X
(e) M
64. By arranging the letters of the word IG SIM W NM the name of a game is formed, what are the first and last letter of the word so formed ?
(a) MS (b) SG
(c) NI (d) NG
(e) None of these
65. If it is possible to make a meaningful word from the second, fourth, tenth and twelfth letters of the word ADVERTISEMENT, using each letter only once, write the last letter of the word as your answer. If more than one such word can be formed, write 'P' as your answer and if no such word can be formed, write 'X' as your answer.
(a) P (b) X
(c) N (d) M
(e) D
66. How many pairs of letters are there in the word CRYSTALLIZE, which have as many letters between them as in the alphabet?
(a) 1 (b) 2
(c) 3 (d) 4
(e) None of these
67. If letters in the word UNIVERSAL are arranged in the alphabetical order and each letter is assigned numerical value equal to its serial number from the left in this rearranged order, what is the difference in the total of numerical values of vowels and that of consonants?
(a) 19 (b) 17
(c) 21 (d) 20
(e) None of these
68. How many pairs of letters are there in the word EXCLUSIVE which have as many letters between them as in the alphabet?
(a) 2 (b) 3
(c) 4 (d) Nil
(e) None of these
69. If it is possible to make a meaningful word from the fifth, seventh, eighth, ninth and thirteenth letters of the word 'EXTRAORDINARY' using each letter only once, write the second letter of that word as your answer. If no such word can be formed write 'X' as your answer and if more than one such word can be formed, write 'M' as your answer.
(a) A (b) I
(c) R (d) M
(e) X
70. The letters of the name of a vegetable are I, K, M, N, P, P, U. If the letters are rearranged correctly, then what is the last letter of the word formed ?
(a) M (b) N
(c) K (d) P
(e) None of these
71. If it is possible to make a meaningful word with the second, the fifth and the eighth letters of the word 'CARETAKER', which of the following will be the first letter of that word? If no such word can be made, give X as answer. If more than one such word can be made, give M as the answer.
(a) A (b) E
(c) X (d) M
(e) None of these
72. If it is possible to make a meaningful word with the first, the fourth, the seventh and the eleventh letters of the word 'INTERPRETATION', which of the following will be third letter of that word? If more than one such word can be made give M as the answer and if no such word can made, give X as the answer.
(a) I (b) R
(c) X (d) M
(e) None of these
73. If the second, third, fifth, eighth and ninth letters of the word CONTEMPLATION are combined to form a meaningful word, what will be the middle letter of that word ? If more than one such words can be formed, your answer is X and if no such word can be formed, your answer is Y.
(a) X (b) O
(c) A (d) Y
(e) None of these
74. How many such pairs of letters are there in the word CORPORATE each of which has as many letters in the same sequence between them in the word as in the english alphabet ?
(a) None (b) One
(c) Two (d) Three
(e) None of these
75. Select the combination of numbers so that letters arranged accordingly will form a meaningful word.
R A C E T
1 2 3 4 5
(a) 1, 2, 3, 4, 5 (b) 3, 2, 1, 4, 5
(c) 5, 2, 3, 4, 1 (d) 5, 1, 2, 3, 4
(e) None of these
76. Rearrange the first four letters, in any way, of the word DECISION. Find how many words can be formed by using all the four words.
(a) One (b) Two
(c) Three (d) More than three
(e) None of these

77. If it is possible to form a word with the first, fourth, seventh and eleventh letters of the word 'SUPERFLOUS', write the first letter of that word. Otherwise, X is the answer.
 (a) S (b) L
 (c) O (d) X
 (e) None of these
78. How many independent words can 'HEARTLESS' be divided into without changing the order of the letters and using each letter only once ?
 (a) Two (b) Three
 (c) Four (d) Five
 (e) None of these
79. How many independent words can 'STAINLESS' be divided into without changing the order of the letters and using each letter only once ?
 (a) Nil (b) One
 (c) Two (d) Three
 (e) None of these
80. Select the combination of numbers so that the letters arranged accordingly will form a meaningful word.
 VARSTEE
 (a) 2, 3, 1, 6, 4, 5 (b) 4, 5, 2, 3, 1, 6
 (c) 6, 3, 4, 5, 2, 1 (d) 3, 2, 4, 5, 6, 1
 (e) None of these
81. If by arranging the letters of the word NABMODINT, the name of a game is formed, what are the first and the last letters of the word so formed?
 (a) B, T (b) B, N
 (c) N, D (d) M, T
 (e) None of these
82. Which one of the given responses would be a meaningful order of the following ?
 1. apartment 2. town
 3. street 4. building
 5. complex
 (a) 1, 5, 4, 3, 2 (b) 4, 5, 3, 2, 1
 (c) 2, 1, 3, 4, 5 (d) 1, 4, 5, 3, 2
 (e) None of these
83. If the following words are arranged in reverse dictionary order, which word comes second ?
 (a) Explosion (b) Express
 (c) Exploit (d) Expulse
 (e) None of these
84. A group of alphabets are given with each being assigned a number. These have to be unscrambled into a meaningful word and correct order of letters may be indicated from the given responses.
 T M H R E O
 5 4 3 2 1 0
 (a) 025314 (b) 315402
 (c) 405312 (d) 504231
 (e) None of these
85. From the given alternative words, select the word which cannot be formed using the letters of the given word :
 TRIVANDRUM
 (a) RAIN (b) DRUM
 (c) TRAIN (d) DRUK
 (e) None of these
86. How many meaningful English words can be made with the letters 'OEHM' using each letter only once in each word ?
 (a) FOUR (b) THREE
 (c) TWO (d) ONE
 (e) None of these
87. Which one of the given responses would be a meaningful order of the following ?
 1. Orange 2. Indigo 3. Red 4. Blue 5. Green 6. Yellow 7. Violet
 (a) 7, 2, 4, 5, 6, 1, 3 (b) 7, 2, 4, 6, 5, 1, 3
 (c) 7, 2, 6, 4, 5, 1, 3 (d) 7, 2, 6, 4, 1, 5, 3
 (e) None of these
88. Arrange the following words as per order in the dictionary.
 1. Forecast 2. Forget 3. Foreign 4. Forsook 5. Force
 (a) 3, 5, 1, 2, 4 (b) 5, 1, 3, 2, 4
 (c) 5, 1, 3, 4, 2 (d) 5, 1, 2, 3, 4
 (e) None of these
89. From the given alternatives select the word which can be formed using the letters given in the word.
 ULTRANATIONALISM
 (a) ULTRAMONTANE (b) ULTRAMODERN
 (c) ULTRAIST (d) ULULATE
 (e) None of these
90. From the given alternatives select the word which cannot be formed using the letters of the given word.
 LEGALIZATION
 (a) ALERT (b) ALEGATION
 (c) GALLANT (d) NATAL
 (e) None of these

ANSWER KEY

1	(a)	11	(e)	21	(b)	31	(c)	41	(e)	51	(c)	61	(b)	71	(d)	81	(b)
2	(c)	12	(c)	22	(d)	32	(b)	42	(a)	52	(d)	62	(d)	72	(d)	82	(d)
3	(b)	13	(a)	23	(a)	33	(a)	43	(e)	53	(a)	63	(e)	73	(b)	83	(b)
4	(b)	14	(b)	24	(e)	34	(d)	44	(d)	54	(b)	64	(b)	74	(c)	84	(c)
5	(d)	15	(b)	25	(d)	35	(b)	45	(c)	55	(c)	65	(e)	75	(d)	85	(d)
6	(d)	16	(d)	26	(b)	36	(e)	46	(b)	56	(e)	66	(c)	76	(a)	86	(d)
7	(d)	17	(a)	27	(d)	37	(e)	47	(d)	57	(d)	67	(b)	77	(b)	87	(a)
8	(a)	18	(a)	28	(d)	38	(b)	48	(d)	58	(e)	68	(b)	78	(b)	88	(b)
9	(b)	19	(d)	29	(c)	39	(e)	49	(b)	59	(c)	69	(d)	79	(c)	89	(c)
10	(e)	20	(c)	30	(e)	40	(b)	50	(c)	60	(a)	70	(b)	80	(b)	90	(a)

Hints & Explanations

1. (a) After dropping every third letter, we get
A B D E G H J K M N P Q S T V W Y Z
(11 - 7) = 4th from the right.
2. (c)
3. (b) W2 N1 V9 G2 P4 X6 K7 R1 T8 L3 H5 Q8 U2 J
4. (b) Positions corresponding to the multiples of five are E, J, O, T, Y and that of multiples of seven are G, N and U. Hence, the total number of remaining letters in the series = $26 - 8 = 18$
5. (d) The changed sequence becomes
A B C D E F G H I J K L M Z Y X W V U T S R Q P O N
9th letter to the right of 7th letter from your left
= $(9 + 7) = 16$ th from left
= $(26 + 1 - 16) = 11$ th from right
So X is the required letter.
6. (d) We have to look for Vowel-Number and Number-Vowel sequences.
J 1 # P 4 E K 3 A D \$ R U M 9 N 5 I % T V * H 2 ÷ F 6 G 8 Q W
4, 3 and 5 are the required numbers.
7. (d) D \$ R U M 9 N 5 I % T V * H 2
7 elements 7 elements
8. (a) After the changing, the series becomes as follows;
J 1 # P 4 E K 3 A D \$ R U M 9 N W Q 8 G 6 F ÷ 2 H * V T % 15
Now, ninth to the right of the eleventh element from the left → $(11 + 9) = 20$ th element from the left, i.e., G.
9. (b) We have to look for Symbol = Consonant – Consonant sequence and Symbol – Consonant – Symbol sequences.
J I # P 4 E K 3 A D \$ R U M 9 N 5 I % T V H 2 ÷ F 6 G 8 Q W
Only T is such a consonant.
10. (e) See the difference between each two successive element.
(a) $A + 2 = \$ - 5 = E$
(b) $\% + 2 = V - 5 = N$
(c) $2 + 2 = F - 5 = V$
(d) $4 + 2 = K - 5 = 1$
(e) $6 + 3 = Q - 5 \neq 6 + 2 = 8 - 5 = 2$
Note that the difference between two successive elements in (e) is not similar to others.
11. (e) KL, RS, ST, XY — We have four such pairs of adjacent boys. But note the phrase “exclusive pairs” Since, S is common in RS and ST, we can have only one of the two pairs. Hence, three pairs.
12. (c) B, S and T
13. (a) L, N, P and Q.
14. (b) F, J, M, O and V.
15. (b) Here, the given numbers are:
517 325 639 841 792
After reversing the numbers become as follows:
715 523 936 148 297
When arranged in descending order the numbers become as follows:
936 715 523 297 148
Now, the third number from top is 523. Hence, the last digit of 523 is 3.
16. (d) After interchanging the first and the second digits, numbers become as follows;
157 235 369 481 972
When arranged in descending order the numbers become as follows;
972 481 369 235 157
Here, the second lowest number is 235.
Hence, middle digit of 235 is 3.
17. (a) If the positions of only the second and the third digits within each number are interchanged, the numbers become as follows.
571 352 693 814 729
Now, when the numbers are arranged in descending order, we get
814 729 693 571 352
Here, 729 is the second highest number
Hence, the first digit of 729 is 7.
18. (a) There are 21 elements in the series. Among them, there are only 5 digits. Since, symbols are replaced by letters and digits are replaced by symbols, ultimately there will be $(21 - 5 =) 16$ letters in the series.
19. (d) We have to search for Letter-Digit-Letter sequence. Note the bold digits given in the series below.
A B 7 C D 9 Z Y * P 2 M © K S 3 ↑ 5 N T @
20. (c) The letters falling between C and 5 are as follows: DZYPMK. Hence, P is the required letter.
21. (b) Note that there are already five digits (7, 9, 2, 3, 5,) in the series. If the four symbols are replaced by the remaining digits from 1 to 9 (1, 4, 6, 8) then sum of the digits = $1 + 2 + \dots$
 $+ 9 = \frac{9 \times 10}{2} = 45$
[Sum of n natural numbers
 $= \frac{n \times (n + 1)}{2}$]
22. (d) Seventh to the left of eighth element from right = $(7 + 8) = 15$ th element from the right.
In original series 'Z' occupies the 15th place from right but after the changes 'Z' interchanges its position with 'C'.
23. (a) D F J T \$ # P R Z Q * C M A B @ H K L S + ?
only \$ # P is the required answer.

24. (e) * Q Z R P # \$ T J F D C M A B @ H K L S + ?

F is the required letter.

25. (d) Number of total symbols = 6; Number of total letters = 16. Since, all the symbols are denoted by 7 and all letters are denoted by 5, sum of the elements of the sequence = $6 \times 7 + 16 \times 5 = 122$
26. (b) When all the symbols are dropped the series becomes as follows:
D F J T P R Z Q C M A B H K L S
Now, seventh to the right of twelfth letter from the right = $(12 - 7) = 5$ th letter from the right, i.e., B.
27. (d) Compare 'DJ' and '?S'. 'D' is the first element from left end of the series and '?' is the first element from right end. Similarly, 'J' and 'S' are third elements from left and right end respectively. Hence, 'FT' is related to 'L'.
28. (d) After changing the series becomes as follows :
I D 7 1 J P \$ 3 E R T 5 £ M 2 N A 4 F H 6 U 9 # V B @ W
Now, twenty-second element from the right end is 3.
29. (c) We have to look for
Vowel-number-consonant sequence.
M £ 5 T R E 3 \$ P J 1 7 D I 2 N A 4 F H 6 U 9 # V B @ W
Only 2 and 4 are such numbers.
30. (e) D 2 J

R	+4	P	+4	D	+4	A
3	+4	1	+4	2	+4	F
£	+4	E	+4	J	+4	I
31. (c) M £ 5 T R E 3 \$ P J 1 7 D I 2 N A 4 F H 6 U 9 # V B @ W
So P & V are such consonants
32. (b) Fifth element towards right of the seventeenth element from the right end implies twelfth element from the right end. Hence, the required element is 4.
33. (a) If the numbers from the first half of the sequence are dropped, the series becomes as follows:
W H J Q T G K F P T 6 L B E 9 4 D M R 8 2 V
Hence, 5th to the right of the sixth letter/ number from the left $\Rightarrow$ 11th element from the left, i.e. 6.
34. (d) Here, we have to find out letter-letter-number sequence. Bold letters in the sequence given below represent those letters:
W 3 7 H J Q T 5 1 2 G **K** 4 F P T 6 L B **E** 9 4 D M 1 8 2 V
35. (b) Following is the common property found in others:
If first element of each group occupies nth position in the given sequence then the last element of the corresponding group occupies $(n + 3)$ th position in the given sequence.
36. (e) M K 3 \$ R E 5 F % T U J * 8 P H B N 2 I S # A 3 7 D 4
37. (e) Here the rule followed is: All the groups consist of three elements. Where, 1st element + 2 = 2nd element and 2nd element + 3 = 3rd element.
38. (b) After re-arrangement the new arrangement will be
M K 3 \$ R E 5 B % T A J * 8 P H F N 2 I S # U 3 7 D 4
39. (e) B A 5 D % R I F H ⑥ # V ⑨ \$ 3 ⑤ 7 G
 $1 \div 2 = M$ K X 8 U F W Z N
Hence, the required element is '9'.
40. (b) See the difference between each two successive elements.

- (a) E + 2 G - 4 \$
(b) R + 3 F - 5 D
(c) 1 + 2 2 - 4 7
(d) X + 2 U - 4 M
(e) H + 2 # - 4

Note that the difference between two successive elements in (b) is not similar to others.

41. (e) Here specific letters are E, M, A and L. Words formed with these letters are as follows
1. LAME 2. MALE 3. MEAL
Since, no. of words formed by the given letters is more than two, our answer is choice (e).
42. (a) E X T R A
When E and A are arranged in alphabetical order then i.e. AE, E will be second.
43. (e) Selected letters of the given word are R, H, A and E. By using each letter only once we can make the following words:
1. HEAR 2. HARE
This is more than one.
44. (d) The letters are: P, L, A, E. Meaningful words: PALE, LEAP, PEAL.
45. (c) C R E D I B I L I T Y
46. (b) P O W E R F U L
E F L O P R U W
only U remains unchanged.
47. (d) P I, R U and O N.

P	R	O	D	U	C	T	I	O	N
P R O D U C T I O N									
48. (d) The specified letters are D, I, T and E. Words formed by these letters are as follows:
(i) EDIT (ii) DIET
(iii) TIDE (iv) TIED
49. (b) Here specified letters are: E, A, S, M and T. Words formed from these letters are as follows:
1. STEAM 2. MATES
3. TEAMS
50. (c) Here letters are: B, R, E, A and K. When the consonants are replaced by the next letter then we have C, S, E, A and L to form words. These words are as follows:
1. SCALE 2. LACES
51. (c) O R I E N T A L
52. (d) After interchanging, the order of the letters in the word becomes as follows:
S G N I K R O W
Thus, the third letter to the left of R is N.
53. (a) The new set of letters are: N, E, A, U. Hence no meaningful word can be made.
54. (b) 7th letter to the right of 3rd letter from the left $\Rightarrow$ 10th letter from the left. After changing the word becomes as follows
D E T N E D E C E R P N U

55. (c) P R E S E N C E

56. (e) When the letters in each of the words are arranged in alphabetical order it becomes as follows: cdeo, ackl, eemt, adef and ador. Now when the words are rearranged as in a dictionary then their respective position becomes as follows: ackl, adef, ador, cdeo and eemt.

57. (d) C O R P O R A T E

Note that we have to find the pairs keeping the sequence of the letters of pair according to their sequence in English alphabet. Therefore go for search only from left to right.

58. (e) Here specified letters are: R, I, A and L. Words formed with these letters are:

1. RAIL 2. LIAR 3. LAIR

59. (c) S P O N T A N E O U S

In each shown pairs there is one letter less than the number of letters between them in English alphabet.

60. (a) Arranging English alphabet according to the instructions given, we get

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

$(19 - 5) = 14$ th from the left

61. (b) The 3rd, 6th, 8th and 11th letters are S, N, U and H respectively. The word that can be made is SHUN.
62. (d) L A D Y F I N G E R
63. (e) The specified letters are R, S, T and O. Meaningful word formed from these letters is SORT and ROTS.
64. (b) S W I M M I N G
65. (e) The respective letters are D, E, M and N. Of these letters, only MEND can be formed.

66. (c) C R Y S T A L L I Z E

67. (b) Arranging 'UNIVERSAL' alphabetically and assigning values from leftward, we get A E I L N R S U V

1 2 3 4 5 6 7 8 9

Now, sum of position nos. of vowels (A, E, I, U)

$1 + 2 + 3 + 8 = 14$

and sum of position nos. of consonants (L, N, R, S, V)

$= 4 + 5 + 6 + 7 + 9 = 31$

Difference $= 31 - 14 = 17$

68. (b) Letter are (X, U), (L, I) and (E, C).
69. (d) A, R, D, I, Y. We can make DIARY, DAIRY
70. (b) PUMPKIN
71. (d) The second, fifth and eighth letters of the word CARETAKER are A, T and E respectively. The words formed are EAT, ATE and TEA.

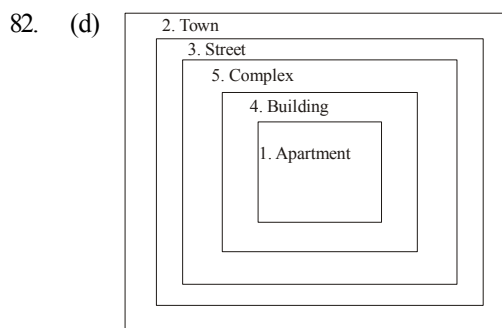
72. (d) The first, fourth, seventh and eleventh letters of the word INTERPRETATION are I, E, R and T respectively. The words formed are TIER, RITE and TIRE.

73. (b) Only one meaningful word 'ALONE' can be made. O is the middle letter.

74. (c) C O R P O R A T E

Three pairs — (P, R), (R, T) and (P, O) have as many letters between them in the word as in the English alphabet. But since the letters must be in the same sequence in the word as in English alphabet, so that desire pairs are (P, R) and (R, T) only.

75. (d) Clearly, the given letters, when arranged in the order 5, 1, 2, 3, 4 from the word 'TRACE'.
76. (a) The first four letters are D, E, C, I and only word DICE can be formed so the answer is (a).
77. (b) The letters selected are S, E, L and S respectively. The word formed is LESS. The first letter is L.
78. (b) The words are HE, ART, LESS
79. (c) Only two such words can be formed. The words are STAIN and LESS.
80. (b). Clearly the given letters, when arranged in the order 4, 5, 2, 3, 1, 6 form the word 'S T A R V E'.
81. (b) The name of the game is BADMINTON.



83. (b) Arrangement in Reverse dictionary order—
Expulse → Express → Explosion → Exploit
1 2 3 4
84. (c)
- | | | | | | |
|---|---|---|---|---|---|
| 4 | 0 | 5 | 3 | 1 | 2 |
| ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| M | O | T | H | E | R |
85. (d) DRUK cannot be formed using TRIVAN DROM as it does not contain letter 'K'.
86. (d) Home, only one meaningful word is formed.
87. (a) These all are colours of the rainbow. Hence, meaningful order is VIBGYOR.
88. (b) Force → Forecast → Foreign → Forget → Forsook
89. (c) By options,
(a) can not be formed as there is no 'E' in the given word.
(b) can not be formed as there is no 'D' in the given word.
(d) can not be formed as there is no 'E' and only 'U' in the given word.
90. (a) ALERT can not be formed as there is no 'R' in the word LEGALIZATION. Hence, (a) is the correct option.