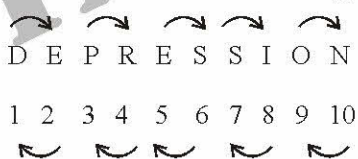
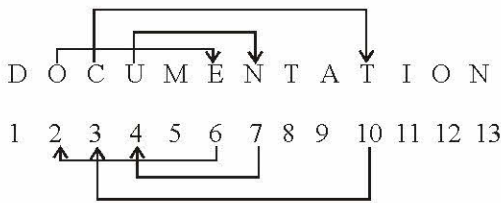


# CH 1 ALPHABET

## ANSWERS AND EXPLANATIONS

### EXERCISE 1

- 1.. (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.
2. (b) 7th letter to the right of 3rd letter from the left  
⇒ 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
3. (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.
4. (d) Clearly, we have :  
COMPREHENSION → (COM) (PREHENS) (ION)  
→ COMIONSNEHERP  
The middle letter is the seventh letter, which is S.
5. (d) The new letter sequence is EDRPSEISNO.  
The seventh letter from the right is P.  

6. (c)  

7. (d) The new letter sequence is  
NOITARTNECNOC  
The eighth letter from the end is R.
8. (a) INDIAN = 17 + 27 + 7 + 17 + 1 + 27 = 96
9. (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 =) 14th from the left
10. (b) According to the question, the value of all the letters will be: its sequential numerical value as in English alphabet + the no. of letters before it in English alphabet.  
Hence D = 4 + 3 = 7, S = 19 + 18 = 37  
E = 5 + 4 = 9 K = 11 + 10 = 21  
∴ Numerical value of DESK  
= 7 + 9 + 37 + 21 = 74
11. (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
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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
12. (a) Arranging the words in alphabetical order, we have  
Random, Restaurant, Restrict, Robber, Rocket.  
So the work in the middle is Restrict and the correct answer is (a).
13. (b) The words are HE, ART, LESS
14. (b) Cancelling every second letter after reversing the alphabet the series becomes.  
Z X V T R P N L J H F D B  
The middle letter is N.
15. (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.

16. (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 =  $26 - 8 = 18$

17. (c) After reversing the first half of the given series, the series becomes as follows:  
MLKJIHGFEDCBANOPQRSTUVWXYZ

There are 14 letters between K and R.

18. (a) The changed sequence becomes  
TUVWXYZHIJKLMNOPQRSABCDEF  
3rd letter to the left of 18th letter from right  
=  $(18 + 3) = 21$ th from right  
=  $(26 + 1 = 21) = 6$ th from left = F

19. (e) 4th to the right of 13th from left  
=  $(13 + 4 =)$  17th from left = Q  
Now, in the changed sequence, MNOPQR becomes RQPONM. Thus N takes the place of Q. Hence in the changed get M in the req. place.

20. (b) First letter moves + 3, + 4, + 5 places forward, second letter + 4, + 5, + 6, and third letter + 5, + 6, + 7 in consecutive terms.

21. (b) ZYXWV

22. (b) W2N1V9G2P4X6K7R1T8L3H5Q8  
U2J

23. (a) EXTRA

When E and A are arranged in alphabetical order then i.e. AE, E will be second.

24. (c) CREDIBILITY

25. (b) POWERFUL

E F L O P R U W

only U remains unchanged.

26. (d) PI, RU and ON.

PRODUCTION

27. (c) ORIENTAL

28. (c)

PRESENCE

29. (d) CORPORATE

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.

30. (a) SPONTANEOUS

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

31. (e) Four

DREAMLAND

32. (b) NURSING

33. (c) CRYSTALLIZE

34. (b) Letter are (X, U), (L, I) and (E, C).

35. (e) HORIZONTAL

So, there are four pairs :

HN, RO, RN, ON

36. (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).

37. (e) SING, SIGN

38. (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.

39. (d) The letters are: P, L, A, E. Meaningful words: PALE, LEAP, PEAL.

40. (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
41. (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
42. (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
43. (e) Here specified letters are: R, I, A and L. Words formed with these letters are:  
1. RAIL 2. LIAR 3. LAIR
44. (b) The 3rd, 6th, 8th and 11th letters are S, N, U and H respectively. The word that can be made is SHUN.
45. (e) The specified letters are R, S, T and O. Meaningful word formed from these letters are SORT and ROTS.
46. (e) The respective letters are D, E, M and N. Of these letters, only MEND can be formed.
47. (d) A, R, D, I, Y. We can make DIARY, DAIRY
48. (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.
49. (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.
50. (e) The third, fifth, seventh and tenth letters of the word PROJECTION are O, E, T and N respectively. The words formed are NOTE and TONE.
51. (c) The first, third, seventh and ninth letter of the word SEPARATION are S, P, T and O respectively. The words formed are SPOT, POTS and TOPS.
52. (b) Only one meaningful word 'ALONE' can be made. O is the middle letter.
53. (b) The letters selected are S, E, L and S respectively. The word formed is LESS. The first letter is L.
54. (b). The word formed by S, R, U and E is SURE, USER.
55. (a) The new set of letters are: N, E, A, U. Hence no meaningful word can be made.
56. (c) Only two such words can be formed. The words are STAIN and LESS.
57. (a) The first four letters are D, E, C, I and only word DICE can be formed so the answer is (a).
58. (a) Letters :  
A, M, L, E  
Words :  
MALE, MEAL, LAME
59. (b) PUMPKIN
60. (d) Clearly, the given letters, when arranged in the order 5, 1, 2, 3, 4 from the word 'TRACE'.
61. (b). Clearly the given letters, when arranged in the order 4, 5, 2, 3, 1, 6 form the word 'STRAVE'.

## EXERCISE 2

1. (e) Q D T P 8 6 9 F G 7 B 4 H J 3 K 2 M N 5  
(9 - 5 =) 4th from right, which is 2.
2. (c) Q D T P 5 2 3 F G 4 B 7 H J 9 K 6 M N 8
3. (a) The first element of each group is two elements forward to the corresponding element of the previous group. The second element of each group is one element backward and the third element of each group is one element forward to the corresponding elements of the previous group as given in the sequence.
4. (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 1 % T V \*  
H 2 ÷ F 6 G 8 Q W  
4, 3 and 5 are the required numbers.
5. (d)  $\underbrace{D \$ R U M 9 N 5 1 \% T V *}_{7 \text{ elements}} \underbrace{H 2}_{7 \text{ elements}}$
6. (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 =) 20th element from the



- left, i.e.,  $G$ .
7. (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.
8. (e) See the difference between each two successive element.  
 (a)  $A + 2 \$ - 5 E$ ;  $A + 2 = \$ - 5 = E$   
 (b)  $\% + 2 V - 5 N$ ;  $\% + 2 = V - 5 = N$   
 (c)  $2 + 2 F - 5 V$ ;  $2 + 2 = F - 5 = V$   
 (d)  $4 + 2 K - 5 I$ ;  $4 + 2 = K - 5 = I$   
 (e)  $6 + 3 Q - 5 \div$ ;  $6 + 2 = 8 - 5 = 2$   
 Note that the difference between two successive elements in 5 is not similar to others.
9. (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.
10. (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 @
11. (c) The letters falling between C and 5 are as follows: DZYPMK. Hence, P is the required letter.
12. (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 =  $\frac{n \times (n+1)}{2}$ ]
13. (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'.
14. (a) D F J T \$ # P R Z Q \* C M A B @ H K L S + ?  
 only \$ # P is the required answer.
15. (e) \* Q Z R P # \$ T J F D C M A B @ H K L S + ?
16. (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 =  $6 \times 7 + 16 \times 5 = 122$
17. (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.
18. (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'.
19. (b) D F J T \$ # P R Z Q \* C M A B @ H K L S + ?  
 A B C D E F G H I J K L M N O P Q R S T U V
20. (e) Except it there is only one element between first and second letter of each group of words when the position of the letters in the series is taken into consideration.
21. (c) Eighth element from right =  $(22 + 1 - 8 =) 15$ th element from left.  
 Hence, the required element which is exactly midway between 5th element from left and 15th element from left, is  $\left(\frac{15+5}{2} =\right)$  10th element from left, i.e., Q.
22. (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 H U 9 # V B @ W  
 Now, twenty-second element from the right end is 3.
23. (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 H U 9 # V B @ W  
 Only 2 and 4 are such numbers.
24. (e) D 2 J  

R	+4	P	+4	D	+4A
3	+4	1	+4	2	+4F
£	+4	E	+4	J	+4I
25. (d) M £ 5 T R E 3 \$ P J 1 7 D I 2 N A 4 F H 6 ★ U 9 # V B @ W





41. (a)  $\underline{2} \ 6 \ 7 \ 5 \ 4 \ 3 \ 7 \ 4 \ 8 \ 9 \ 4 \ 3 \ 2 \ 5 \ 4 \ 7 \ 9 \ 8 \ 6 \ 8 \ 7 \ 1 \ 2 \ 5 \ 3$   
 $7 \ 6 \ 8 \ 9 \ 3 \ 6$
42. (d) 8th to the right of 13th from left =  $(8 + 13) = 21$ st from left  
 =  $(21 - 16 =)$  5th from left in the last 15 numbers  
 [In all, there are 31 numbers.]  
 But this is the required position in the altered sequence. In original sequence, this will be the number which is 5th from right, i.e. 6.
13. (c)  $2 \ 6 \ 7 \ 5 \ 4 \ 3 \ 7 \ 4 \ 8 \ 9 \ 4 \ 3 \ 2 \ 5 \ 4 \ 7 \ 9 \ 8 \ 6 \ 8 \ 7 \ 1 \ 2 \ 5 \ 3$   
 $7 \ 6 \ 8 \ 9 \ 3 \ 6$
44. (b) Here, given number is 95137248. When the number is arranged in ascending order number becomes as follows 12345789. Now, look at the pairs: 35. What do you observe? These pairs are those pairs each of which has as many digits between them in the number as when they are arranged in ascending order.
45. (e) As same no. is subtracted from them, it will not change their relative position, when they are arranged in descending order. So, only reversing them and arranging as directed, we get 984, 451, 263 245, 172.
46. (e) Interchanging, we get 749, 376, 985, 798, 839, 765. Rearranged in descending order, this becomes 985, 839, 798, 765, 749, 376
47. (d) Arrangement without symbols and numbers :  
 H P K E F R U W G M I B Q Z N V J  
 Now, 14th from right end = E
48. (a)
- $P \xrightarrow{+7} R \xrightarrow{+7} M \xrightarrow{+7} \textcircled{C}$   
 $K \xrightarrow{+7} U \xrightarrow{+7} 5 \xrightarrow{+7} N$   
 $\% \xrightarrow{+7} W \xrightarrow{+7} Q \xrightarrow{+7} 8$
49. (b) Z 6 ©
50. (a) 7th to the left of 20th from the left end means  $(20 - 7 =)$  13th from the left end is U.
51. (e) H9, FR1, WG2, QZ6

