

CHAPTER - 6 LETTER SERIES

Letter series consists of a series of small letters which follow a certain pattern. However, some letters are missing from the series. These missing letters are then given in a proper sequence as one of the alternatives and we have to choose that alternative.

❖ EXAMPLES ❖

Ex.1 aab __ aaa __ bba__
 (A) baa (B) abb (C) bab (D) aab

Sol.(A) We proceed step by step as shown below:

1. The first blank space should be filled in by 'b' so that we have two a's followed by two b's.
2. The second blank space should be filled in either by 'a' so that we have four a's followed by two b's or by 'b' so that we have three a's followed by three b's.
3. The last space must be filled in by 'a'.
4. Thus, we have two possible answers : 'baa' and 'bba' . But , only 'baa' appears in the alternatives, So, the answer is (A).
5. In case, we had both the possible answers in the alternatives, we would have chosen the one that forms a more prominent pattern, which is aabb/aaabbb/aa. Thus our answer would have been 'bba'.

Ex.2 __ __ aba __ __ ba __ ab
 (A) abbba (B) abbab
 (C) baabb (D) bbaba

Sol.(B) The series is ab/ab/ab/ab/ab/ab
 thus the pattern ab is repeated

Ex.3 __ __ babbba __ a __ __
 (A) ababb (B) baaab
 (C) bbaba (D) babbb

Sol.(D) The series is bababb/bababb
 Thus the pattern bababb is repeated

Ex.4 abca__ bcaab__ ca __ bbc __ a
 (A) ccaa (B) bbba
 (C) abac (D) abba

Sol.(C) The series is abc/aabc/aabbc/aabbc/a

Ex.5 a__ bccb__ ca __ cca __ baab __ c
 (A) ababc (B) abcaa
 (C) accab (D) bacaa

Sol.(A) The series is aabcc/bbcaa/ccabb/aabcc
 the letters move in a cyclic order and in each group, the first and third letters occur twice.

Ex.6 c__ bbb__ abbbb __ abbb __
 (A) aabcb (B) abccb
 (C) abacb (D) bacbb

Sol.(B) The series is cabbbb/cabbbb/cabbbb
 Thus , the pattern cabbbb is repeated.

Ex.7 mnonopqopqrs__ __ __ __
 (A) mnopq (B) oqrst
 (C) pqrst (D) qrstu

Sol.(C) The series is mno/nopq/opqrs/pqrst

Ex.8 b__ b __ bb __ __ bbb __ bb __ b
 (A) bbbba (B) bbaaab
 (C) ababab (D) aabaab

Sol.(C) The series is babb/bbab/bbba/bbbb. Thus in each sequence, a moves one step forward and b takes its place and finally in the fourth sequence, it is eliminated.

Correspondence Series

This type of series consists of three sequences with three different elements (Usually capital letters, digits and small letters.) On the basis of the similarity in positions in the three sequences, a capital letter is found to correspond with a unique digit and a unique small letter, whenever it occurs. The candidate is required to trace out this correspondence and accordingly choose the elements to be filled in at the desired places.

Ex.9 In the following series, choose the alternative which contains the numerals to be filled in the marked spaces, in the correct order.

B ___ D ___ C A B D A C B
 ___ 4 1 3 2 ___ ? ? ? ?
 d ___ a ___ b c ___ c ___

- (A) 1, 2, 3, 4 (B) 2, 3, 1, 4
 (C) 1, 2, 4, 3 (D) 2, 1, 4, 3

Sol.(A) Clearly, in the second series, 1 occurs at the same position as D occurs in the first series, So 1 corresponds to D. thus, the first question mark below D is to be replaced 1.

Now, in the third series, c at the eighth place corresponds to A in the first series. While c at the sixth place corresponds to 2 in the second series. So, 2 corresponds to A. Thus, the second question mark below A is to be replaced by 2. In the third series, a at the first place corresponds to B in the first series and a at the third place corresponds to 4 in the second series. So, 4 corresponds to B. Thus, the question mark below B is to be replaced by 4.

Now, only 3 remains. So 3 corresponds to C. Thus, the question mark below C is to be replaced by 3. Thus DACB corresponds to 1, 2, 3, 4.

Hence, the answer is (A)

❖ **EXAMPLES** ❖

Ex.10 C B ___ D ___ B A B C C B
 ___ 1 2 4 3 ___ ? ? ? ?
 a ___ a b ___ c ___ b

- (A) 3, 4, 4 3 (B) 3, 2, 2, 3
 (C) 3, 1, 1, 3 (D) 1, 4, 4, 1

Sol.(C) Comparing the positions of the capital letters, numbers and small letters, we find a corresponds to C and 1 corresponds to a. So, a and 1 correspond to C. b corresponds to A and 2 corresponds to b. So b and 2 correspond to A. Also, 4 corresponds to D.

So, the remaining number i.e. 3 corresponds to B. so, BCCB corresponds to 3, 1, 1, 3

Ex.11 ___ A C ___ B D ___ C D C D
 2 ___ 4 1 ___ 1 4 ___
 c d ___ b c ___ a ? ? ? ?

- (A) a, b, a, b (B) a, c, a, c
 (C) c, b, c, b (D) c, d, c, d

Sol.(A) Clearly, 4 corresponds to C and a corresponds to 4. So, a corresponds to C. 1 corresponds to D and b corresponds to 1. So, b corresponds to D. Thus, CDCD corresponds to a, b, a, b.

Alphabet Series

In the alphabet series we have to find the relation or the order in which the letters have been grouped together, and hence, then missing group of letters from the choice given below.

❖ **EXAMPLES** ❖

Ex.12 What terms will fill the blank spaces ?

Z, X, V, T, R (...), (...)

- (A) O, K (B) N, M (C) K, S (D) P, N

Sol. Clearly, the given series consists of alternate letters in a reverse order. So, the missing terms would be P and N.

Ex.13 What will be the next term in BDF, CFI, DHL?

- (A) CJM (B) EIM
 (C) EJO (D) EMI

Sol. Clearly, the first, second and third letters of each term are respectively moved one, two and three steps forward to obtain the corresponding letters of the next term. So, the missing term is EJO.

Hence, the answer is (C)

Ex.14 Which term comes next in the series : YEB, WFD, UHG, SKI ?

- (A) QOL (B) QGL
 (C) TOL (D) QNL

Sol. Clearly, the first letter of each term is moved two steps backward to obtain the first letter of the next term. So, the first letter of the missing term will be Q. The second letter of the first, second, third, fourth terms are respectively moved one, two, three and four steps forward to obtain the corresponding letter of the subsequent term. So, the second letter in the missing term will be O.

The third letter is alternately moved two and three steps forward to obtain the corresponding letter of the subsequent term. So, the third letter in the missing term will be L. thus, the missing term is QOL. Hence, the answer is (A)

Ex.15 Which term will replace the question mark in the series :

ABD, DGK, HMS , MTB, SBL, ?

- (A) ZKW (B) ZKU
(C) ZAB (D) XKW

Sol. Clearly, the first letters of the first, second, third, fourth and fifth terms are moved three, four, five, six and seven steps forward respectively to obtain the first letter of the successive terms. The second letters of the first, second, third, fourth and fifth terms are moved five, six, seven, eight and nine steps forward respectively to obtain the second letter of the successive terms. The third letter of the first, second, third, fourth and fifth terms are moved seven, eight, nine, ten and eleven steps forward respectively to obtain the third letter of the successive terms. Thus, the missing term would be ZKW. Hence, the answer is (A)

Ex.16 Choose the term which will continue the following series :

P 3 C, R 5 F, T 8 I, V 12 L ?

- (A) Y 17 O (B) X 17 M
(C) X 17 O (D) X 16 O

Sol. Clearly, the first letters of the terms are alternate. The sequence followed by the numbers is +2, +3, +4, The last letter of each term is three steps ahead of the last letter of the preceding term. Thus, the next term would be X 17 O. Hence, the answer is (C).

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EXERCISE

- Q.1** Y, W, U, S, Q, ?, ?
(A) N, J (B) M, L (C) J, R (D) O, M
- Q.2** A, B, D, G, ?
(A) M (B) L (C) K (D) H
- Q.3** A, C, F, H, ?, M
(A) L (B) K (C) J (D) I
- Q.4** Z, L, X, J, V, H, T, F, ?, ?
(A) R, D (B) R, E (C) S, E (D) Q, D
- Q.5** W, V, T, S, Q, P, N, M, ?, ?
(A) I, J (B) J, I (C) J, K (D) K, J
- Q.6** CE, GI, KM, OQ, ?
(A) TW (B) TV (C) SU (D) RT
- Q.7** BD, GI, LN, QS, ?
(A) TV (B) UW (C) WX (D) VX
- Q.8** OTE, PUF, QVG, RWH, ?
(A) SYJ (B) TXI (C) SXJ (D) SXI
- Q.9** ejo tyd ins xch ?
(A) nrw (B) mrw (C) msx (D) nsx
- Q.10** AB, DEF, HIJK, ?, STUVWX
(A) MNOPQ (B) LMNOP
(C) LMNO (D) QRSTU
- Q.11** 2Z5, 7Y7, 14X9, 23W11, 34V13, ?
(A) 27U24 (B) 47U15
(C) 45U15 (D) 47V14
- Q.12** U, O, I, ?, A
(A) E (B) C (C) S (D) G
- Q.13** Z, U, Q, ?, L
(A) I (B) K (C) M (D) N
- Q.14** A, Z, X, B, V, T, C, R, ?, ?
(A) P, D (B) E, O (C) Q, E (D) O, Q
- Q.15** R, M, ?, F, D, ?
(A) C, B (B) J, H (C) B, H (D) I, C
- Q.16** Z, S, W, O, T, K, Q, G, ?
(A) N, C (B) N, D (C) O, C (D) O, D
- Q.17** Z, Y, X, U, T, S, P, O, N, K, ?, ?
(A) H, G (B) H, I (C) I, H (D) J, I
- Q.18** b e d f ? h j ? l
(A) i m (B) m i (C) i n (D) j m
- Q.19** AZ, BY, CX, ?
(A) EF (B) GH (C) IJ (D) DW
- Q.20** AZ, CX, FU, ?
(A) IR (B) IV (C) JQ (D) KP
- Q.21** AZ, GT, MN, ?, YB
(A) KF (B) RX (C) SH (D) TS
- Q.22** BF, CH, ?, HO, LT
(A) DN (B) EL (C) EM (D) FJ
- Q.23** AD, EH, IL, ?, QT
(A) LM (B) MN (C) MP (D) OM
- Q.24** JE, LH, OL, SQ, ?
(A) WV (B) WX (C) VW (D) XW
- Q.25** DF, GJ, KM, NQ, RT, ?
(A) UW (B) YZ (C) XZ (D) UX
- Q.26** cx fu ir ? ol ri
(A) lo (B) mn (C) no (D) op
- Q.27** eac gce ieg ?
(A) jhi (B) jgi (C) kgi (D) khi
- Q.28** CAT, FDW, IGZ, ?
(A) KJA (B) KTC (C) LHD (D) LJC
- Q.29** BEH, KNQ, TWZ, ?
(A) IJL (B) CFI (C) BDF (D) ADG
- Q.30** deb ijg nol ? xyv
(A) rsp (B) stp (C) rsq (D) stq
- Q.31** ? siy oeu kaq gwm cri
(A) wnc (B) wnb (C) vnc (D) wmc
- Q.32** QPO, SRQ, UTS, WVU, ?
(A) XVZ (B) ZYA
(C) YXW (D) VWX

Directions :

In the following questions you are give some letter which follow a set pattern. There are four/five choices the answer choice that can replace the '?' in the series.

- Q.33** J, L, N, P, R, T, ?
(A) S (B) U (C) V (D) W
(E) T

Q.34 b e d f ? h j ? l
 (A) i m (B) m i (C) i n (D) j m
 (E) m k

Q.35 X U S P N K I ?
 (A) J (B) K (C) M (D) F
 (E) O

Q.36 H V G T F R E P D N ?
 (A) K L (B) L M (C) M N (D) N O
 (E) C L

Q.37 D F, G J, K M, N Q, R T, ?
 (A) U W (B) Y Z (C) X Z (D) U X
 (E) Y A

Q.38 n d, i y, d t, y o, t j,
 (A) m p (B) n q (C) o f (D) o e
 (E) m e

Q.39 e a c g c e i e g ?
 (A) j h i (B) j g i (C) k g i (D) k h i
 (E) k i j

Q.40 p r t,, b d f, h j l, n p r
 (A) u w y (B) v y a (C) x z b (D) u x w
 (E) v x z

Q.41 B F K Q ?
 (A) R (B) S (C) W (D) F
 (E) X

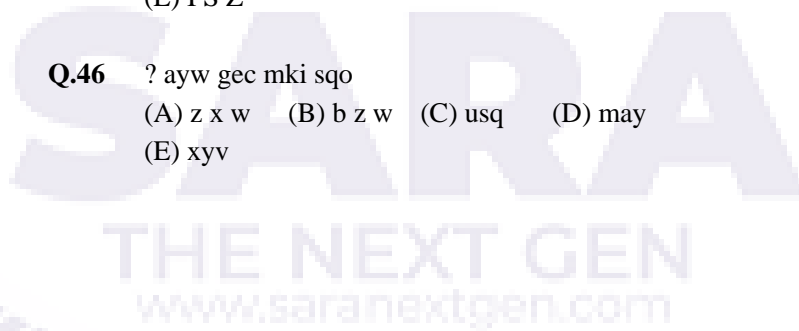
Q.42 D-4, F-6, H-8, J-10, ?,?
 (A) K-12, M-13 (B) L-12, M-14
 (C) L-12, N-14 (D) K-12, M-14
 (E) None

Q.43 K P A, L Q B, M R C, N S D,
 (A) T O E (B) O E T
 (C) E T O (D) O T E
 (E) E O T

Q.44 Find the wrong term in the letter-number series given below :
 G4T, J10R, M20P, P43N, S90L
 (A) G4T (B) J10R (C) M20P (D) P43N
 (E) S90L

Q.45 E P V, F Q W, G R X, H S Y,
 (A) I T Z (B) I U Z (C) J I Z (D) I R Z
 (E) I S Z

Q.46 ? a y w g e c m k i s q o
 (A) z x w (B) b z w (C) u s q (D) m a y
 (E) x y v



ANSWER KEY

EXERCISE

Ques.	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
Ans.	D	C	B	A	D	C	D	D	B	A	B	A	D	A	D	A	D	A	D	C	C	C	C	D	D
Ques.	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46				
Ans.	A	C	D	B	D	D	C	C	A	D	E	D	D	C	E	E	C	D	B	A	C				

HINTS & SOLUTIONS

- | | |
|--|---|
| <p>12. The series consists of vowels A, E, I, O, U written in a reverse order.</p> <p>13. The first, second, third,letters of the series are respectively moved five, four, threesteps forward to obtain the successive terms.</p> <p>14. The first, fourth and seventh letters are in alphabetical order. So, tenth letter would be the letter after C i.e. D.
Also, the second and third letters are alternate and in reverse order and so are the fifth and sixth letters and the eighth and ninth letters.</p> <p>15. Letters are in reverse order in which from last 0, 1, 2, 3, and 4 letters are missing between two consecutive letters.</p> <p>16. The given sequence consists of two series :
I. Z, W, T, Q, ? in which each letter is moved three steps backward to obtain the next term.
II. S, O, K, G in which each letter is moved four steps backward to obtain the next term.</p> <p>17. The given series consists of three consecutive letters from the end, then two letters skipped, then again three consecutive letters from the end and so on.</p> <p>18. The series may be divide into groups as shown:
$b e d / f i h / j m l$
In each group, first letter is moved two steps forward to obtain the third letter while the third letter is moved one step forward to obtain the second letter.</p> <p>19. The first letter of each term is moved one step forward and the second letter is moved one step backward to obtain the corresponding letters of the next term.</p> | <p>20. The first letter of the first, second, third,terms are respectively moved two three, four,steps forward to obtain the first letter of the successive term. The second letter of the first, second, third,.... terms are respectively moved two, three, four,steps backward to obtain the second letter of the successive terms.</p> <p>21. The first letter of each term is moved six steps forward while the second letter is moved six steps backward to obtain the corresponding letters of the next term.</p> <p>22. The first letter of the first, second, third,.....terms are respectively moved one, two three, steps forward while the second letters are respectively moved two, three, four,steps forward to obtain the corresponding letters of the successive terms.</p> <p>23. The first and second letters of each term are moved four steps forward to obtain the corresponding letters of the next term.</p> <p>24. The first letter of the first, second, third,terms are respectively moved two, three, four,steps forward while the second letters of these terms are respectively moved three, four, five,steps forward to obtain the corresponding letters of the successive terms.</p> <p>25. There is a gap of one letter between both the letters of first term, a gap of two letters between the letters of third and fourth terms respectively. Besides, the last letter of each term and the first letter of next term are in alphabetical order.</p> <p>26. The first letter of each term is moved three steps forward and the second letter is moved three steps backward to obtain the corresponding letters of the next terms.</p> |
|--|---|

27. The first letters of the terms are alternate and so are the second and third letters.
28. All the letters of each term are moved three steps forward to obtain the corresponding letters of the next term.
29. All the letters of each term are moved nine steps forward to obtain the corresponding letters of the next term.
30. The letters in each term are moved five steps forward to obtain the corresponding letters of the next term.
31. The letters in each term are moved four steps forward to obtain the corresponding letters of the next term.

32. Each term in the series consists of three consecutive letters in reverse order, first letter of each term and the last letter of the next term are the same.

33. Each letter follows a gap of one letter, as ®

$$\begin{matrix} & K & & M & & O & & Q & & S & & U \\ J & | & L & | & N & | & P & | & R & | & T & | & V \end{matrix}$$

34. The series can be divided into set of 3 letters as bed/fih/jml, where each set follow the pattern as gap of two letters in 1st and 2nd letter and gap of one term between 1st and 3rd letter.

35. Each letters follows gap of two letters and then one letter when we start alphabet from right side,

as,
$$\begin{matrix} & W & & T & & R & & Q & & O & & M & & L & & J & & H & & G \\ X & | & U & | & S & | & P & | & N & | & K & | & I & | & S & | & O & | & I & | & F \end{matrix}$$

36. The series can be divided into set of 2 letters HV | GT | FR | EP | DN, where first letter of each set is next one and the second letter of each set is moving backward one step, as
 (H V)_U
 (G T)_S
 (F R)_Q
 (E P)_O
 (D N)_M
 (C L)

37. Each set consist of gap of one letter and two letters, as →

$$\begin{matrix} & E & & H & & I & & L & & O & & P & & S \\ D & | & F & | & G & | & J & | & K & | & M & | & N & | & Q & | & R & | & T \end{matrix}$$

so, next will be
$$\begin{matrix} & & & V & & W \\ & & & \underline{U} & | & \underline{X} \end{matrix}$$

38. Four letters are left between the first letters of each group in reverse order and four alphabets are left between the second letters of each group in reverse order.

39. Each set has first letter alternate and so on the second and third letters.

40. Here letters move one step forward within the set itself and between the set as P^q|^sr|t,

$$\begin{matrix} & u & & w & & y & & z & & c & & e \\ | & v & | & x & | & z & | & b & | & d & | & f, \\ & g & & i & & k & & m & & o & & q \\ | & h & | & j & | & l, & | & n & | & p & | & r. \end{matrix}$$

41. Each corresponding letter follow the gap of three four and five letters.

42. Each letter is paired with number of value of letter in alphabets.

43. Each set has first letter in sequence as alphabets same is followed for other two letters.

K	P	A
↓	↓	↓
L	O	B
↓	↓	↓
M	R	C
↓	↓	↓
N	S	D
↓	↓	↓
Q	T	E

44. The first letter of each term is moved three steps forward and the last letter moves two steps backward to get the corresponding letter of the next term. The number follow the sequence $\times 2 + 1, \times 2 + 2, \times 2 + 3, \times 2 + 4$. So, 10 is wrong must be replaced by $(4 \times 2 + 1) = 9$.

45. Each letter of each term is corresponding move one step ahead.

46. Each term in the series consists of alternate letters in reverse order. The first letter of each term and the last of the second term are also alternate.