



The Winners Institute

Reasoning

Letter Series

Practice Sheet

Basic to High Level with solution



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**SBI PO & LIC AAO
(2013- Batch) Selected**



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Letter Serise - Practice Sheet

निर्देश: (1-22) नीचे दी गई श्रृंखलाओं में प्रश्नवाचक चिह्न (?) के स्थान पर अक्षर ज्ञात करें।
Directions: (1-22) Find the letter in place of question mark (?) In the serieses given below.

1. SCD, TEF, UGH, ?, WKL
(a) CMN (b) UJI
(c) VIJ (d) IJT
2. B2CD, ____, BCD4, B5CD, BC6D
(a) B2C2D (b) BC3D
(c) B2C3D (d) BCD7
3. FAG, GAH, HAI, IAJ, ?
(a) JAK (b) HAL
(c) HAK (d) JAI
4. ELFA, GLHA, ILJA, ?, MLNA
(a) OLPA (b) KLMA
(c) LLMA (d) KLLA
5. CMM, EOO, GQQ, ?, KUU
(a) GRR (b) GSS
(c) ISS (d) ITT
6. ZA₅, Y₄B, XC₆, W₃D, ____
(a) E₇V (b) V₂E
(c) VE₅ (d) VE₇
7. QPO, NML, KJI, ____, EDC
(a) HGF (b) CAB
(c) JKL (d) GHI
8. JAK, KBL, LCM, MDN, ____
(a) OEP (b) NEO
(c) MEN (d) PFQ
9. BCB, DED, FGF, HIH, ?
(a) JKJ (b) HJH
(c) IJI (d) JHJ
10. P5QR, P4QS, P3QT, ____, P1QV
(a) PQW (b) PQV2
(c) P2QU (d) PQ3U
11. QAR, RAS, SAT, TAU, ____
(a) UAV (b) UAT
(c) TAS (d) TAT

12. D1E1F1, D1E1F2, D1E2F2, ____, D2E2F3
(a) DEF3 (b) D3EF3
(c) D2E3F (d) D2E2F2
13. B, F, ____, N, R
(a) G (b) K
(c) J (d) L
14. P, ____, J, G, D, A
(a) Q (b) N
(c) K (d) M
15. ____, E, G, J, N
(a) A (b) B
(c) D (d) Z
16. X, F, Y, G, ____, H
(a) Z (b) A
(c) B (d) Y
17. B, B, A, D, ____, F
(a) B (b) A
(c) Z (d) C
18. LMD, MKG, NIJ, ____
(a) PKM (b) MGO
(c) LGM (d) OGM
19. D, DD, DDDD, DDDDDDD, ____
(a) DDDDDDDDD (b) DDDDDDDDDDD
(c) DDDDDDD (d) DDDDDDDDDDDDD
20. 2B, ____, 8E, 14H, 22L
(a) 4C (b) 4D
(c) 6E (d) 9F
21. 1CV, 5FU, 9IT, ____, 17OR
(a) 11LS (b) 14JS
(c) 15JS (d) 13LS
22. KM5, IP8, GS11, EV14, ____
(a) CY17 (b) BY17
(c) BX17 (d) CZ17

निर्देश (23-28): निम्नलिखित छह प्रश्नों में, दिए गए अक्षर श्रृंखला में अंतराल पर क्रमिक रूप से रखे गए अक्षरों में से कौन सा एक सेट इसे पूरा करेगा?

Directions (23-28): In the following six questions, which one set of letters when

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sequentially placed at the gaps in the given letter series shall complete it?

23. ab_accab_acc_bba_cabba_c
(a) bcabb (b) acbcc
(c) bbacc (d) bcbba
24. xx_yz_xyz_xx_yyz_z
(a) yyxyz (b) yzxyz
(c) yzyyz (d) yxxyz
25. nc_dcn_cddc_n_ddcnn_d
(a) cdndc (b) dnncc
(c) dcndd (d) nccdn
26. a b _ c a b b _ a b b _ a b _ c
(a) aabc (b) baab
(c) accb (d) bccb
27. a b c _ b c _ a b c c _ a _ c c c c
(a) accb (b) abbc
(c) bcca (d) accc
28. a _ c a _ ab _ a _ ab _ ab
(a) bbabc (b) babaa
(c) aabbb (d) bcbcb
29. DCXW, FEVU, HGTS,
(a) JKPO (b) JIRQ
(c) CBYZ (d) JMRS
30. AZ, CX, EV, GT, ?, KP, ?
(a) IR and NM (b) IR and MN
(c) RI and NM (d) RI and MN
31. YYZ, VYZ, SYZ, PYZ, ?
(a) LYZ (b) TYZ
(c) XYZ (d) MYZ
32. AB, DEF, HIJK, ?, STUVWX
(a) MNOPQ (b) LMNOP
(c) LMNO (d) QRSTU
33. nd, sy, xt, co, hj, ?
(a) mp (b) mq
(c) me (d) mf
34. निम्नलिखित वर्णमाला में से कौन सा अक्षर दाईं ओर से 17 वें अक्षर के दाईं 8 वां अक्षर होगा?
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

Which letter amongst the following alphabet is the 8th letter to the right of 17th letter from 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) R (b) M
(c) L (d) S
35. xy _ z _ xxyx _ px _ yxzpx _ yxzpx
(a) xpzxx (b) yxyz
(c) yxzpx (d) zyxy
36. P₅QR, P₄QS, P₃QT, _____, P₁QV
(a) PQW (b) PQV₂
(c) P₂QU (d) PQ₃U
37. _ x _ y _ xyxx _ yxy _ xyxx
(a) xxxyy (b) xyxy
(c) yxyxy (d) yxyxy

निर्देश: (38-40) निम्नलिखित तीनों प्रश्नों में, दिए गए अक्षर श्रृंखला में अंतराल पर क्रमिक रूप से रखे गए अक्षरों में से कौन सा एक सेट इसे पूरा करेगा?

Direction: (38-40) In the following three questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

38. a _ _ dba _ _ bcad _ _ da _ _ cd
(a) aabbccdd (b) bccdbcab
(c) abcdcdcb (d) cbcdcdcb
39. SH _ ELAS _ EELA _ HEELA SHEE _ A
(a) HHSS (b) EEHS
(c) EHSL (d) ELHA
40. adb _ ac _ da_cddcb _ dbc _ cbda
(a) bccba (b) ccbbba
(c) cbbaa (d) bbcad

निर्देश: (41-46) निम्नलिखित प्रत्येक प्रश्न में, एक श्रृंखला दी गई है, जिसमें एक शब्द गायब है। दिए गए विकल्पों में से सही विकल्प चुनें जो श्रृंखला को पूरा करेगा।

Direction: (41-46) In each of the following questions, a series is given, with one term missing. Choose the correct

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alternative from the given ones that will complete the series.

41. BAZ, DBY, FCX, ?
(a) FXW (b) EFX
(c) FEY (d) HDW
42. _ yz _ zx _ xyx _ z _ zxzxy
(a) xzyzy (b) yyyzz
(c) yxzyx (d) xyyzz
43. A, CD, GHI, ?, UVWXYZ
(a) LMNP (b) MNOL
(c) NOPL (d) MNOP
44. AZB_, AZ _Y, A _BY, _ ZBY
(a) YBZA (b) BYAZ
(c) BZYA (d) AZBY
45. X, Q, K, F, ?
(a) C (b) D
(c) E (d) B
46. _aabab_ab_ab_bba
(a) bbaa (b) baaa
(c) abaa (d) abba

निर्देश: (47-56) दिए गए विकल्पों में से सही विकल्प चुनें जो श्रृंखला को पूरा करेगा।

Directions: (47-56) Choose the correct alternative from the given ones that will complete the series.

47. AD EI IN OS ?
(a) UX (b) XY
(c) WY (d) UY
48. MN QR UV ?
(a) XY (b) WX
(c) YX (d) YZ
49. C J P ? Y B
(a) W (b) U
(c) R (d) T
50. AN, CP, ER, ?
(a) VI (b) GT
(c) AP (d) WJ
51. CX, GT, JQ, LO, ?
(a) NM (b) KP

(c) MN (d) PK

52. T, S, Q, N, J, ?
(a) E (b) O
(c) H (d) F
53. B, D, G, L, ?
(a) O (b) S
(c) T (d) R
54. B, E, J, Q, ?
(a) A (b) Y
(c) Z (d) U
55. IN, KL, MJ, OH, ?
(a) OF (b) QF
(c) QE (d) IQ
56. AM, BO, DR, ?
(a) HV (b) GV
(c) HT (d) VI

निर्देश: (57-73) निम्नलिखित अक्षर श्रृंखला में से प्रत्येक में, कुछ अक्षर गायब हैं जो उस क्रम में दिए गए विकल्पों में से एक के रूप में दिए गए हैं। सही विकल्प चुनें।

Directions: (57-73) In each of the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

57. ab __ aa __ bbb __ aaa __ bbba
(a) abab (b) abba
(c) aaab (d) baab
58. __ bc __ __ bb __ aabc
(a) aacc (b) abab
(c) babc (d) acac
59. G2X, J4V, M8T, ?, S32P
(a) N64S (b) P16R
(c) Q16R (d) P8S
60. _qr_srq_p_rs_r_p
(a) pqrsss (b) qprsss
(c) pspqsq (d) pspqqq
61. __ __ babbba __ a __ __
(a) babbb (b) bbaba

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- (c) baaab (d) ababb
62. efg __ eff _ ghhe _ eff _ gggh _ h
(a) eghhfe (b) ghhhh
(c) hegefhe (d) hgefhe
63. abb __ baa __ a __ bab __ aba
(a) ccac (b) aabb
(c) abab (d) abba
64. __ baa __ aab __ a __ a
(a) aaba (b) abab
(c) baab (d) aabb
65. c __ bbb __ abbbb __ abbb _
(a) abccb (b) abacb
(c) bacbb (d) aabcb
66. ba __ b __ aab __ a __ b
(a) babb (b) baab
(c) abba (d) abaa
67. ab __ bc __ c __ ba __
(a) aaab (b) caab
(c) aabb (d) baac
68. aa __ aab __ aaa _ a
(a) baaa (b) abab
(c) aabb (d) aaab
69. __ aba __ ba __ ab
(a) bbaba (b) baabb
(c) abbab (d) abbba
70. __ bca __ cca __ ca __ b __ c
(a) bbabb (b) aabaa
(c) bbbab (d) aaaaa
71. bc __ b __ c __ b __ cc
(a) bcbc (b) cbbc
(c) bbcb (d) cbcb
72. ab __ __ b __ bbaa __
(a) abaab (b) baaab
(c) abbab (d) babba
73. a __ ca __ bc __ bcc __ bca
(a) baba (b) aabb
(c) bbab (d) bbaa
74. AbCdE, DeFgH, GHIjK, JkLmN, ?
(a) OpQrS (b) NoPqR

- (c) MnOpQ (d) LmNoP
75. A 2 Z 3 B 4 Y 5 C 6 ?
(a) X (b) U
(c) W (d) T
76. 4E, 8I, 13N, 19T, ?
(a) 26U (b) 26A
(c) 26Z (d) 25Y
77. a _ ba _ b _ b _ a _ b
(a) abaab (b) abbab
(c) aabba (d) bbabb
78. cccbb _ aa _ cc _ bbbba _ c
(a) aebe (b) baca
(c) baba (d) acba
79. _ nmmn _ mmmn _ mnnm _
(a) nmmn (b) mnnm
(c) nnmm (d) nmnm
80. adb _ ac _ da _ cddcb _ dbc _ cbda
(a) bccba (b) cbbaa
(c) ccbba (d) bbcad

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ANSWERS

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

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Solution

1. (c)
There are two alphabetical series here. The first series is with the first letters only: STUVW. The second series involves the remaining letters: CD, EF, GH, IJ, KL.
2. (b)
Because the letters are the same, concentrate on the number series, which is a simple 2, 3, 4, 5, 6 series, and follows each letter in order.
3. (a)
The middle letters are static, so concentrate on the first and third letters. The series first letters are in alphabetical order: F, G, H, I, J. Same as third letters G, H, I, J, K.
4. (d)
The second and forth letters in the series, L and A, are static. The first and third letters consecutive as EF, GH, IJ, KL, MN.
5. (c)
The first letters are in alphabetical order with a letter skipped in between each segment: C, E, G, I, K. The second and third letters are repeated; they are also in order with a skipped letter: M, O, Q, S, U.
6. (d)
There are three series to look for here. The first letters are alphabetical in reverse: Z, Y, X, W, V. The second letters are in alphabetical order, beginning with A. The number series is as follows: 5, 4, 6, 3, 7.
7. (a)
This series consists of letters in a reverse alphabetical order.
8. (b)
This is an alternating series in alphabetical order. The middle letters follow the order ABCDE. The first and third letters are alphabetical beginning

with J. The third letter is repeated as a first letter in each subsequent three-letter segment.

9. (a)
This series consists of a simple alphabetical order with the first two letters of all segments: B, C, D, E, F, G, H, I, J, K. The third letter of each segment is a repetition of the first letter.
10. (c)
The first and third letters "PQ" are static. The fourth letter is in alphabetical order, beginning with R. The number series is in descending order beginning with 5.
11. (a)
In this series, the third letter is repeated as the first letter of the next segment. The middle letter, A, remains static. The third letters are in alphabetical order, beginning with R.
12. (d)
In this series, the letters remain the same: DEF. The subscript numbers follow this series:
111, 112, 122, 222, 223, 233, 333,
13. (c)
Trick-

B	+4	F	+4	J	+4	N	+4	R
---	----	---	----	---	----	---	----	---
14. (d)
Trick-

P	-3	M	-3	J	-3	G	-3	D	-3	A
---	----	---	----	---	----	---	----	---	----	---
15. (c)
Trick-

④ D	+1	⑤ E	+2	⑦ G	+3	⑩ J	+4	⑭ N
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(Number in circles shown the position of alphabets)

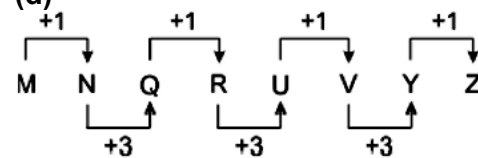
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16. (a)
17. (c)
18. (d)
First Letter : L +1 M +1 N +1 O
Second Letter : M -2 K -2 I -2 G
Third Letter : D +3 G +3 J +3 M
19. (d) Trick-
D +1D DD +2D DDD +3D DDDDD +4D DDDDDDDDD
20. (a)
21. (d)
1 +4 5 +4 9 +4 13 +4 17
3 +3 6 +3 9 +3 12 +3 15
22 -1 21 -1 20 -1 19 -1 18
C F I L O
V U T S R
22. (a)
11 -2 9 -2 7 -2 5 -2 3
13 +3 16 +3 19 +3 22 +3 25
M P S V Y
5 +3 8 +3 11 +3 14 +3 17
23. (c) The pattern of series is „abb/acc/abb/acc/abb/acc/abb/acc“
24. (b) The pattern of series is xxyyzz /xyz / xxyyyzzz.
25. (b) The pattern of series is ncddcn/ ncddcn/ ncddcn/ ncd
26. (d) The pattern of series is abbc/ abbc/ abbc/ abbc
27. (a) The pattern of series is abc/ abcc/ abccc/ abcccc
28. (d) The pattern of series is abcab/ abcab/ abcab
29. (b)
30. (b)
A +2 C +2 E +2 G +2 I +2 K +2 M
Z -2 X -2 V -2 T -2 R -2 P -2 N
31. (d) Second and third letters are same in each terms and first letter is decreasing by 3 starting from Y.
32. (a) The number of letters is the terms goes on leaving one letter after each set and the next set has one letter more than the previous one.
33. (c)

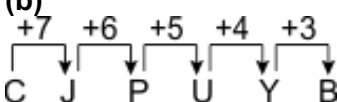
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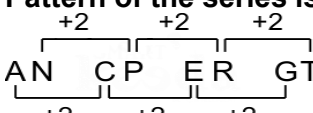
34. (a)
 $17 - 8 = 9$
 So 9th letter from right is "R"
35. (a)
 The series is
 xyzpx/xyzpx/xyzpx/xyzpx. Thus, the
 pattern 'xyzpx' is repeated.
36. (c)
 The first two letters, PQ, are static. The
 third letter is in alphabetical order,
 beginning with R. The number series is in
 descending order beginning with 5.
37. (d)
 The series is yxx/yyx/ yxx/yyx/ yxx/yyx.
 Thus, the pattern yxx/yyx is repeated..
38. (b)
 The pattern is that, in a group of 4 letters,
 the combination of first four alphabets is
 used. \Rightarrow abcd bacd bcad bcda abcd
39. (c)
 SH _ ELAS _ EELA _ HEELA SHEE _ A
 The pattern is that the word 'SHEELA' is
 repeated. \Rightarrow SHEELA SHEELA SHEELA
 SHEELA
40. (c)
 adb _ ac _ da _ cddcb _ dbc _ cbda
 The pattern is that in a group of 4 letters,
 there is a combination of first four
 alphabets, i.e. 'a,b,c,d'.
 \Rightarrow adbc acbd abcd dcba dbca cbda
41. (d)
 The third, sixth and ninth letters are in the
 reverse order of the alphabet i.e. Z, Y, X,
 W. Ist fourth and seventh letters are going
 up with a gap of one letter and II, V and
 VIIIth are moved ahead one letter.
42. (a)
 The series is xyz/yzx/zxy /xyz/yzx/zxy.
 So, the letters change places in a cyclic
 manner.
43. (d)
 here the given series is A, CD, GHI, ?,
 UVWXYZ

here the pattern is that 1st term is A and
 then a single alphabet is missed and next
 two alphabets are written after that next
 two alphabets are missed and next three
 alphabets are written and so in next case
 for missing term 3 next terms will be
 missed i.e. JKL will be missed and next 4
 terms will be written i.e MNOP and hence
 the missing term is MNOP

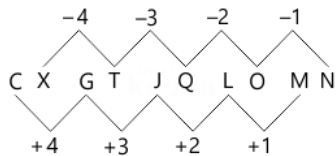
44. (a)
 here in this question every term is AZBY
 so the given pattern is AZB_, AZ _Y, A
 _BY, _ZBY
 in order to fulfil this we need to fill"
 YBZA" from left to right in the blanks.
45. (d)
 The number of letters between two
 consecutive letters is one more then the
 next two consecutive letters.
 The number of letters between X and Q is
 7.
 The number of letters between Q and K is
 6.
 The number of letters between F and K is
 5.
 The missing letter would 4 letters behind
 F which is B.
 Hence Option D is the correct answer.
46. (a)
 Upon placing the option 'bbaa' into the
 blanks, we have: baababbabaababba
 Clearly, the pattern 'baababba' repeats.
 baababba | baababba Hence the answer
 is 'bbaa'. Option A is the correct answer.
47. (a)
 $A - E - I - O - U \Rightarrow$ Vowels
 $D \xrightarrow{+5} I \xrightarrow{+5} N \xrightarrow{+5} S \xrightarrow{+5} X$
 Hence, option A is correct.
48. (d)

 Hence, option D is correct.

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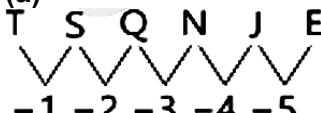
49. (b)

Hence, option B is correct.

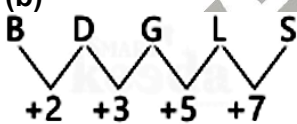
50. (b)
Pattern of the series is:

Hence, option B is correct.

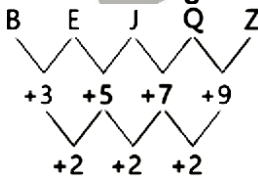
51. (c)
From the below image we can say that MN is the missing term of series.

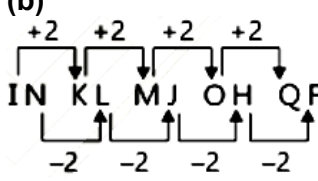


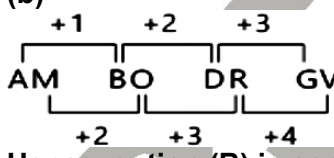
Hence option C is the correct answer.

52. (a)

The missing term as per the image shown above is E.
Hence option A is correct.

53. (b)

The missing term as per the image shown above is S.
Hence option B is correct.

54. (c)
From the below image we can say that Z is the missing term of series.

Hence option C is the correct answer.

55. (b)

The missing term as per the image shown above is QF.
Hence option B is correct.

56. (b)

Hence, option (B) is correct.

57. (d)
The series is abb/aaabbb/aaaabbbb/a.
Thus, the letters are repeated twice, then thrice, then four times and so on

58. (d)
The series is abc/cab/bca/abc.

59. (b)
 $G + 3 = J + 3 = M + 3 = P + 3 = S$
 $2 * 2 = 4 * 2 = 8 * 2 = 16 * 2 = 32$
 $X - 2 = V - 2 = T - 2 = R - 2 = P$

60. (c)
The correct sequence is pqrs/srqp/pqrs/srqp.
And the pattern is pqrs and srqp.

61. (a)
The series is bababb/bababb.
Thus, the pattern bababb is repeated..

62. (c)
The series is efgh / eeffgghh / eeeffggghhh.
Here, the missing sequence is hegefh.

63. (d)
The series is abba/baab/abba/baab/a.
Thus, the pattern abba, baab is repeated.

64. (b)
The series is aba/aba/aba/aba.
Thus, the pattern aba is repeated.

Letter Serise - Practice Sheet

65. (a)
The series is cabbbb/cabbbb/cabbbb.
Thus, the pattern cabbbb is repeated.
66. (c)
The series is baab/baab/baab.
Thus, the pattern baab is repeated.
67. (b)
The series is abc/bca/cab/abc.
Thus, the letters are written in a cyclic order.
68. (d)
The series is aaaaaba/aaaaaba.
Thus, the pattern aaaaba is repeated.
69. (c)
The series is ab/ab/ab/ab/ab/ab.
Thus, the pattern ab is repeated.
70. (c)
The series is bbcab/ccabc/aabbc.
71. (d)
The series is bccb/bccb/bccb.
Thus, the pattern bccb is repeated.
72. (b)
The series is abb/aab/abb/aab.
Thus, the pattern abb, aab is repeated.
73. (d)
The series is abc ab/bca bc/cab ca.
74. (c)
The pattern is alternate sequence of captial letters and reptition of last two letter.
So, based on the pattern, the next sequence is MnOpQ.
75. (a)
Here,
 $1 \xrightarrow{+1} 2$
 $A \longleftrightarrow Z \rightarrow \text{Pairs of opposite letters}$
Likewise,
 $3 \xrightarrow{+1} 4$
 $B \longleftrightarrow Y$
Then,
 $5 \xrightarrow{+1} 6$
 $C \longleftrightarrow \boxed{X}$
76. (b)
The first number and second letter moves 4, 5, 6,..... steps forward in the english alphabetical order.
 $19 + 7 = 26$
 $T + 7 = A$
So, the required sequence is 26A.
77. (d)
The series is abb/abb/abb/abb.
The pattern 'abb' is repeated.
bbabb is a missing sequence.
78. (b)
The series is ccc bbb aaa/cc bbb aaa/c. The pattern ccc bbb aaa is repeated.
79. (c)
The series is nnmm/nnmn/nnmm/nnmm.
The pattern 'nnmm' is repeated.
80. (b)
The series is adbc/acbd/abcd/dcba/dbca/cbda.
cbbaa is missing sequence.