CHAPTER

3

Series

1. In the following questions, select the related letters/word/ number from the given alternatives.
ACEG : SUWY : : BDFH : ? **(SSC CGL 1st Sit. 2010)**
(a) TVZX (b) RTZV
(c) TVXZ (d) RTVZ

2. Find the next two letters in the given series.
B C E H L ? ? **(SSC CGL 1st Sit. 2010)**
(a) XY (b) MN
(c) QW (d) OP

3. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
a_b_a_ _n_bb_abbn **(SSC CGL 1st Sit. 2010)**
(a) abnabb (b) bnbban
(c) bnbbna (d) babban

4. Which one number is **wrong** in the given series ?
126, 98, 70, 41, 14 **(SSC CGL 1st Sit. 2010)**
(a) 98 (b) 70
(c) 126 (d) 41

DIRECTIONS (Qs. 5-8) : *In each of the following questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2010)

5. 3, 4, 7, 11, 18, 29, ?
(a) 31 (b) 39
(c) 43 (d) 47

6. AGMSY, CIOUA, EKQWC, ? IOUAG, KQWCI
(a) GMSYE (b) FMSYE
(c) GNSYD (d) FMYES

7. 975, 864, 753, 642, ?
(a) 431 (b) 314
(c) 531 (d) 532

8. 8, 24, 12, ? 18, 54
(a) 28 (b) 36
(c) 46 (d) 38

9. Which number is wrong in the given series ?
1, 9, 25, 50, 81 **(SSC CGL 1st Sit. 2010)**
(a) 1 (b) 25
(c) 50 (d) 81

10. Which set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
__a__aaaba__ __ ba__ ab __ **(SSC CGL 2nd Sit. 2010)**
(a) abaaaa (b) abaaba
(c) aababa (d) ababaa

DIRECTIONS (Qs. 11-15) : *In each of the following questions, find the missing number/ letters/ figure from the given responses* :

(SSC CGL 2nd Sit. 2010)

11. a, r, c, s, e, t, g, ___, ___
(a) x,z (b) u, i
(c) w, y (d) v, b

12. (?), PSVYB, EHKNQ, TWZCF, ILORU
(a) BEHKN (b) ADGJM
(c) SVYBE (d) ZCFIL

13. 0, 4, 18, 48, ? 180
(a) 58 (b) 68
(c) 84 (d) 100

14. 36, 28, 24, 22 ?
(a) 18 (b) 19
(c) 21 (d) 22

15. 7, 9, 13, 21, 37, ?
(a) 58 (b) 63
(c) 69 (d) 72

16. Select the number which does NOT belong to the given series :
232, 343, 454, 564, 676 **(SSC CGL 2nd Sit. 2010)**
(a) 676 (b) 454
(c) 343 (d) 564

17. Which one-set of letters when sequentially placed at the gaps in the given letter series shall complete it?
__cb__cab__baca__cba__ab **(SSC CGL 1st Sit. 2011)**
(a) cabcb (b) abccb
(c) bacbc (d) bcaba

DIRECTIONS (Qs. 18-21) : *In each of the following questions, a series is given, with one/two terms(s) missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2011)

18. XYZCBAUVWFE ? ?
(a) DR (b) RS
(c) DS (d) MN

19. reoc, pgme, nikg, lkii ?
(a) acef (b) jmgk
(c) efgh (d) wxyz

20. 4, 196, 16, 169, ?, 144, 64
(a) 21 (b) 81
(c) 36 (d) 32

21. 8, 15, 36, 99, 288, ?
(a) 368 (b) 676
(c) 855 (d) 908

22. Find the wrong number in the series.
6, 9, 15, 22, 51, 99 **(SSC CGL 1st Sit. 2011)**
(a) 99 (b) 51
(c) 22 (d) 15

23. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
__ab __b __aba __ __ abab **(SSC CGL 2nd Sit. 2011)**
(a) a bb aa (b) bb aa b
(c) ab aa b (d) a aa ba

DIRECTIONS (Qs. 24-27): *a series is given, with one/two term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 2nd Sit. 2011)

24. 14, 19, 29, 49, 89, ?
(a) 139 (b) 149
(c) 159 (d) 169

25. BMRG, DLTF, FKVE, HJXD, ?.
(a) JIZC (b) JZIB
(c) GIFB (d) MOLC

26. 121, 144, 289, 324, 529, 576, ?.
(a) 961 (b) 841
(c) 900 (d) 729

27. 5, 21, 69, 213, 645, ?.
(a) 1670 (b) 1941
(c) 720 (d) 1320

DIRECTIONS (Qs. 28-32) : *In questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2012)

28. YX, UTS, ONML, ?.
(a) FEDCB (b) GFEDC
(c) IHGFE (d) HGFED

29. DA, HE, LI, ?, TQ
(a) PJ (b) PT
(c) PM (d) PK

30. B E I N T ?.
(a) X (b) Y
(c) A (d) Z

31. AZ, CX, EV, ?.
(a) HT (b) HU
(c) GS (d) GT

32. D9Y, J27S, P81M, V243G, ?.
(a) A324B (b) C729B
(c) B729A (d) A729B

33. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
_c_bd_cbcda_a_db_a
(a) daabbc (b) bdbcba
(c) adabcd (d) cdbbca

DIRECTIONS (Qs. 34-37): *In questions, identify the wrong number in the series.*

(SSC CGL 1st Sit. 2012)

34. 9, 19, 40, 83, 170, 340
(a) 83 (b) 40
(c) 340 (d) 170

35. 21, 28, 33, 35, 37, 36
(a) 21 (b) 36
(c) 33 (d) 35

36. 5, 13, 29, 61, 120, 253
(a) 120 (b) 253
(c) 61 (d) 29
(c) 61 (d) 29

37. 0, 7, 28, 63, 124, 215
(a) 28 (b) 215
(c) 7 (d) 63

DIRECTIONS (Qs. 38-41) : *In questions, a Series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2012)

38. RAZ SBY TCX UDW VEV ?
(a) ZAT (b) WFU
(c) FWU (d) XGX

39. AAC BBD CCE DDF EEG F ?
(a) DG (b) FG
(c) GH (d) FH

40. B I P ? D
(a) U (b) W
(c) S (d) R

41. DF, GJ, KM, NQ, RT, ?
(a) UX (b) UW
(c) YZ (d) XZ

DIRECTIONS (Qs. 42-43): *In questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?*

(SSC CGL 2nd Sit. 2012)

42. a_ba_c_aad_aa_ea
(a) babbb (b) babbd
(c) babbc (d) bacde

43. aa_aa bb_b_aa_aa bb_bb.
(a) bbbaa (b) bbbba
(c) aabbb (d) babba

44. Find the wrong number in the series from the given alternatives.
17, 36, 53, 68, 83, 92 **(SSC CGL 2nd Sit. 2012)**
(a) 92 (b) 53
(c) 68 (d) 83

DIRECTIONS (Qs. 45-46) : *In each of the following questions,which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?*

(SSC CGL 2nd Sit. 2012)

45. c_ab_ca_bc_a
(a) b c a b (b) a b c b
(c) b a c b (d) c b a c

46. _ba _ bab_babb_b
(a) b a a a (b) a b b b
(c) b a b b (c) a b a b

DIRECTIONS (Qs. 47-50): *In each of the following questions, select the missing number from the given responses.*

(SSC CGL 2nd Sit. 2012)

47. 500, 484, 459, ?, 374
(a) 384 (b) 432
(c) 418 (d) 423

48. MNOPWXYZRSTUBCD ?.
(a) A (b) E
(c) I (d) F

49. 60, 69, 85, ?, 146
(a) 110 (b) 117
(a) 110 (b) 117
(c) 109 (d) 120

50. 46, 50, 47, 55, 49, 61, ?.
(a) 54 (b) 52
(c) 57 (d) 51

51. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
a _ cbc _ ca _ ab _ bca _ ab **(SSC CGL 2nd Sit. 2012)**
(a) b a b c c (b) b c a b b
(c) a b c b c (d) b c a b c

DIRECTIONS (Qs. 52-56) : *In the following questions a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 2nd Sit. 2012)

52. BCFG, JKNO, RSVW, ?
(a) ZADE (b) HIKL
(c) STUX (d) MNPQ

53. CIM, HNR, MSW, ?
(a) SXA (b) UYB
(c) RXB (d) ZEH

54. 2, 3, 6, 7, 14, 15, ?
(a) 16 (b) 30
(c) 31 (d) 32

55. 3120, ? , 122, 23, 4
(a) 488 (b) 621
(c) 610 (d) 732

56. 0, 5, 60, 615, ?
(a) 6030 (b) 6170
(c) 6130 (d) 6000

DIRECTIONS (Qs. 57-60) : *In questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Sub. Ins. 2012)

57. STU, WXY, ABC, ___?___
(a) DEF (b) EFG
(c) FCG (d) EGF

58. A3E, F5J, K7O, ___?___
(a) Q11T (b) Q9V
(c) P9T (d) P11T

59. GX, JU, NR, SO, ___?___
(a) VL (b) YL
(c) XB (d) YA

60. BAT, EAT, HAT, ___?___
(a) CAT (b) FAT
(c) RAT (d) KAT

61. Find the wrong term in the following series :
49, 49, 50, 54, 60, 79, 104 **(SSC Sub. Ins. 2012)**
(a) 60 (b) 49
(c) 104 (d) 54

62. Which one of the following numbers lacks the common property in the series?
81, 36, 25, 9, 5, 16 **(SSC Sub. Ins. 2012)**
(a) 5 (b) 9
(c) 36 (d) 25

DIRECTIONS (Qs. 63 & 64) : *A series is given, with one number/ letter missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Multitasking 2012)

63. 3, 11, 38, 102, _____, 443
(a) 227 (b) 237
(c) 247 (d) 217

64. BD, FH, JL, NP, ?
(a) PQ (b) RS
(c) SU (d) RT

65. Which one of the letters when sequentially placed at the gaps in the given letter series shall complete it?
m _ _ l m _ l _ m m _ l
(a) mllml (b) mlmll
(c) llmlm (d) mmlml

66. Which number is wrong in the series?
5, 11, 23, 47, 96
(a) 47 (b) 23
(c) 96 (d) 11

DIRECTIONS (Qs. 67-75) : *In question, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2013)

67. EFA, GHC, IJE, ___?___.
(a) KDA (b) JKG
(c) KLG (d) HIF

68. 13, 10, ___?___, 100, 1003, 1000, 10003.
(a) 130 (b) 1030
(c) 1130 (d) 103

69. 61, 52, 63, 94, 46, ___?___.
(a) 19 (b) 18
(c) 17 (d) None

70. 5, 13, 29, 61, 125, ___?___.
(a) 145 (b) 253
(c) 196 (d) 245

71. YZ, VYZ, SYZ, PYZ, ___?___.
(a) XYZ (b) TYZ
(c) RYZ (d) MYZ

72. P 3 C, R 5 F, T 8 I, V12 L ___?___.
(a) X16O (b) X17M
(c) X17O (d) Y17O

73. NP MK RT IG ____?____.
(a) VX (b) UW
(c) FD (d) EC

74. AZ, CX, EV, GT ___?___, KP, ___?___.
(a) IR and MN (b) IR and NM
(c) RI and MN (d) RI and NM

75. T Q N K H E B Y V S P ???
(a) MJH (b) NKG
(c) NKI (d) MJG

DIRECTIONS (Qs. 76-79): *In questions, select the missing number from the given responses.*

(SSC CGL 1st Sit. 2013)

76. 19 18 34 32 44 41
2 4 ?
(a) 3 (b) 6
(c) 9 (d) 4

77. 4 3 2
36 2 100 7 ? 5
(a) 71 (b) 49
(c) 64 (d) 81

78. $\bar{5}$, $\bar{1}\dot{1}$, $\bar{2}\dot{4}$, $\bar{5}\dot{1}$, $\bar{1}\hat{0}\acute{6}$, ___$\bar{?}$___.
(a) 115 (b) 122
(c) 217 (d) 221

79. 3917, 3526, ___?___, 2857
(a) 3082 (b) 3174
(c) 3389 (d) 2682

DIRECTIONS (Qs. 80-83) : *In each of the following questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2013)

80. EJO, FKP, GLQ, HMR, ?
(a) ABC (b) DEF
(c) MNO (d) INS

81. B O C N D M E ? ?
(a) L F (b) O P
(c) K L (d) E F

82. 7, 2 = 59; 5, 3 = 28; 9, 1 = 810; 2, 1 = 13; 5, 4 = ?
(a) 19 (b) 9
(c) 20 (d) 239

83. 120, 440, 960, 1680, ?
(a) 2600 (b) 3240
(c) 3040 (d) 2400

DIRECTIONS (Qs. 84-85): *In question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?*

(SSC CGL 1st Sit. 2013)

84. b_ab_b_aab_b
(a) abba (b) baaa
(c) aabb (d) abbb

85. _bcab_cabc_abca_b
(a) aabc (b) bbca
(c) abac (d) abca

DIRECTIONS (Qs. 86-90) : *In question, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2013)

86. C – 3, E – 5, G – 7, I – 9, ?, ?
(a) K – 11, M – 13 (b) O – 15, X – 24
(c) M – 18, K – 14 (d) X – 24, M – 21

87. 5, 16, 51, 158, ?
(a) 483 (b) 481
(c) 1454 (d) 1452

88. 9 * 2 : 9 * 9 :: 9 × 5 : ?
(a) 9 × 6 (b) 9 × 7
(c) 9 × 8 (d) 9 × 4

89. AFI, JOR, MRU, ?
(a) HMP (b) PMO
(c) RJL (d) GJN

90. bc, cde, de, efg, fg ?
(a) fgh (b) hij
(c) ijk (d) ghi

DIRECTIONS (Qs. 91-93) : *In a given series, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2013)

91. AKU, FPZ, ?, PZJ, UEO, ZJT
(a) JUE (b) KVE
(c) KUE (d) JVE

92. MRS, LTU, KVW, ?
(a) TQR (b) MOP
(c) JXY (d) CDE

93. B, G, K, N, ?
(a) P (b) O
(c) H (d) L

DIRECTIONS (Qs. 94-98) : *Select the missing number from the given responses.*

(SSC CGL 2nd Sit. 2013)

94. 1944, 108, ?, 6, 3
(a) 16 (b) 18
(c) 11 (d) 12

95. 251 (12) 107
381 (?) 125
(a) 14 (b) 24
(c) 11 (d) 16

96. 354 (110) 526
297 (?) 631
(a) 128 (b) 116
(c) 135 (d) 143

97. 0, 7, 26, 63, ?
(a) 125 (b) 126
(c) 217 (d) 124

98. 2, 5, 10, 19, 36, ?
(a) 70 (b) 71
(c) 68 (d) 69

99. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
- - b a a b a a - a a - **(SSC CGL 1st Sit. 2013)**
(a) b b a a (b) b a a b
(c) a a b b (d) a b a b

100. Find the number which does not fit in the following series:
49, 81, 123, 156, 221 **(SSC CGL 1st Sit. 2013)**
(a) 81 (b) 123
(c) 156 (d) 49

DIRECTIONS (Qs. 101-107) : *In each of the following questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?*

(SSC CGL 2nd Sit. 2013)

101. a _ _ b abba _ abb a _ ba
(a) abab (b) abba
(c) aabb (d) aaab

102. AZB–, AZ – Y, A – BY, – ZBY
(a) YBZA (b) BYAZ
(c) BZYA (d) AZBY

103. Find out the wrong number in the sequence
102, 101. 98, 93, 86, 74, 66, 53
(a) 101 (b) 66
(c) 74 (d) 93

104. ELFA, GLHA, ILJA, _?_ MLNA
(a) OLPA (b) KLMA
(c) LLMA (d) KLLA

105. 4, 18, 48, _?_, 180
(a) 80 (b) 100
(c) 105 (d) 125

106. FGHJKLNOPRS ?
(a) T (b) M
(c) Q (d) U

107. $b-0, y-3, c-8, x-15, d-24$, _?_,
(a) e – 48 (b) w – 35
(c) w – 39 (d) v – 30

DIRECTIONS (Qs. 108-111) : *In each of the following questions, select the missing number from the given responses:*

(SSC CGL 2nd Sit. 2013)

108. 54 30 112 42 ? 28
24 70 38
(a) 176 (b) 166
(c) 116 (d) 66

109. 15 12 44 28 64 53
3 8 ?
(a) 30 (b) 13
(c) 70 (d) 118

110. 95, 115, 145, 155, ?
(a) 215 (b) 175
(c) 185 (d) 165

111. 1, 3, 8, 19, 42, _?
(a) 65 (b) 71
(c) 89 (d) 93

DIRECTIONS (112-115) : *In each of the following questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Sub. Ins. 2013)

112. KJL, ONP, SRT, ?
(a) WVX (b) VWX
(c) WXV (d) VUW

113. 198, 202, 211, 227, ?
(a) 236 (b) 252
(c) 275 (d) 245

114. AN, BO, CP, DQ, ?
(a) EG (b) ER
(c) EH (d) EF

115. 7, 25, 61, 121, ?
(a) 210 (b) 211
(c) 212 (d) 209

116. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
a _ b _ c _ a _ bc _ b _ cb **(SSC Multitasking 2013)**
(a) acbcab (b) ccbcca
(c) ccaccb (d) cacabc

DIRECTIONS (Qs. 117- 119): *In the following questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Multitasking 2013)

117. 15, 23, 31, 39, ? , 55, 63,
(a) 45 (b) 47
(c) 46 (d) 44

118. 2, 3.5, 5, 6.5, 8, ? .
(a) 9.0 (b) 9.5
(c) 10.5 (d) 11.0

119. 32, 58, 92, 134, ? .
(a) 169 (b) 184
(c) 194 (d) 156

DIRECTIONS (Qs. 120-122) : *In questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.* ;

(SSC CHSL 2013)

120. YVP, WTN, URL, ?
(a) SPJ (b) TQLS
(c) VSP (d) SRJ

121. 2, 8, 18, 32, 50, ?
(a) 70 (b) 68
(c) 64 (d) 72

122. 1, 3, 7, 15, 31, ?
(a) 73 (b) 63
(c) 37 (d) 36

123. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
aa_aabb_b_aa_aabb_bb **(SSC Stenographer 2013)**
(a) abbab (b) bbbaa
(c) babba (d) aabbb

DIRECTIONS (Qs. 124-126) : *In questions, Series is given, with one number/letter missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Stenographer 2013)

124. 112, 124, 156, 208, _?
(a) 316 (b) 280
(c) 292 (d) 304

125. 96, 101, 126, 187, _?
(a) 296 (b) 306
(c) 300 (d) 297

126. B A F E J I P O _? U
(a) V (b) T
(c) S (d) Q

127. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
rtx _ sx _ z _ txy __ yz **(SSC Sub. Ins. 2014)**
(a) y y r x s (b) y y s x r
(c) y y r s x (d) y y x r s

DIRECTIONS (Qs. 128-130) : *In questions below, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Sub. Ins. 2014)

128. FAG, GAF, HAI, IAH, _____
(a) JAK (b) HAK
(c) JAI (d) HAL

129. 3, 6, 9, 15, 24, 39, 63, ?
(a) 100 (b) 87
(c) 102 (d) 99

130. –1, 0, ?, 8, 15, 24
(a) 4 (b) 3
(c) 2 (d) 1

DIRECTIONS (Qs. 131-132) : *In question, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Multitasking 2014)

131. 7, 14, 23, 34, ?
(a) 46 (b) 47
(c) 44 (d) 45

132. AE, FJ, KO, ? UY
(a) QN (b) TQ
(c) NP (d) PT

DIRECTIONS (Qs. 133-137) : *In Question, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CHSL 2014)

133. 3, 15, 4, 16, 5, 17, 6, ?, 7
(a) 12 (b) 13
(c) 15 (d) 18

134. 68, 81, 96, ? 132
(a) 105 (b) 110
(c) 113 (d) 130

135. 121, 253, 374, 495, ?
(a) 565 (b) 523
(c) 5116 (d) 5102

136. CE, GI, KM, OQ, ?
(a) TW (b) TV
(c) SU (d) RT

137. R, O, L, I, F ?
(a) C (b) A
(c) E (d) I

138. Find the wrong number in the series :
30, 27, 36, 45, 72
(a) 30 (b) 27
(c) 36 (d) 72

139. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
_ cb _ ca _ bacb _ ca _ bac _ d .
(a) badddb (b) bbbddd
(c) addddb (d) addbbb

140. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
ac__c_cb_acbcacbca_bc **(SSC CGL 1st Sit. 2014)**
(a) abbb (b) bacc
(c) babc (d) bbcc

DIRECTIONS (Qs. 141-143) : *A series is given, with one term missing. Choose the correct alternative from the given ones* that will complete the series.

(SSC CGL 1st Sit. 2014)

141. AZ, CX, FU, ?
(a) IR (b) IV
(c) JQ (d) KP

142. 1, 2, 6, 24, ?, 720
(a) 3 (b) 5
(c) 120 (d) 8

143. 156, 506, ?, 1806
(a) 1056 (b) 856
(c) 1456 (d) 1506

DIRECTIONS (Qs. 144-147) : *Choose the correct alternatives from the given ones which will complete the series.*

(SSC Stenographer 2014)

144. 8, 18, 32, 50, 72, ?
(a) 76 (b) 98
(c) 80 (d) 70

145. B D Z X F H V T J ? ? ?
(a) L R P (b) L P R
(c) L R Q (d) K R P

146. B X J, E T L, H P N, K L P, ?
(a) M H Q (b) M I P
(c) N I R (d) N H R

147. 1331, 729, 343, 125, ?
(a) 27 (b) 64
(c) 216 (d) 512

DIRECTIONS (Qs. 148-149) : *In questions below, which one set of letters when sequentialy placed at the gaps in the given letter series shall complete it?*

(SSC Sub. Ins. 2015)

148. LU_TUPLUBTU_LUBT_P_UBTUP
(a) LBPU (b) BPUL
(c) PBUL (d) BUPL

149. B_CCABB_CABBC_AB_CCA
(a) BCBC (b) BCCB
(c) BBCC (d) BBBC

DIRECTIONS (Qs. 150-151) : *In questions below, a series is given, with one/two term/ s missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC Sub. Ins. 2015)

150. 24, 35, 20, 31, 16, 27, __, __
(a) 9, 9 (b) 5, 30
(c) 8, 25 (d) 12, 23

151. $7\frac{1}{7}, 8\frac{2}{6}, 9\frac{5}{5}, 12\frac{2}{4}, 16\frac{2}{3}, \_\_?\_\_$
(a) 35 (b) $\frac{50}{2}$
(c) $15\frac{2}{4}$ (d) $16\frac{4}{4}$

DIRECTION (Qs. 152-155) : *In questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

152. Y, T, P, __?__, K **(SSC CHSL 2015)**
(a) L (b) O
(c) N (d) M

153. 4, 11, 17, 22, ?, 29, 31, 32
(a) 26 (b) 27
(c) 23 (d) 24

154. $6+\sqrt{216}; 7+\sqrt{343}; 8+\sqrt{512}; 9+\sqrt{729};$?__
(a) $10+\sqrt{10000}$ (b) $10+\sqrt{10^5}$
(c) $10+\sqrt{100}$ (d) $10+\sqrt{1000}$

155. AZ, CX, FU, ?__
(a) JQ (b) KP
(c) IR (d) IV

156. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
_bbm_amb_m_a_bbm **(SSC CHSL 2015)**
(a) ambbm (b) mabam
(c) abmab (d) mbabm

DIRECTIONS (Qs. 157-160): *A series is given, with one/two term missing. Choose the correct alternatives from the given ones that will complete the series.*

157. 6, 2, 9, 4, 12 , –, – **(SSC CHSL 2015)**
(a) 6, 15 (b) 4, 13
(c) 8, 24 (d) 13, 15

158. A D H M S ?
(a) T (b) W
(c) X (d) Z

159. –1, 0, 3, 8, 15 , ?
(a) 23 (b) 26
(c) 24 (d) 25

160. ACEZXVGIKTRP ?
(a) M (b) N
(c) O (d) L

161. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
ab_cba_bcc_aabccb_ _ bccba **(SSC CHSL 2015)**
(a) abbac (b) cccab
(c) cabaa (d) abcab

162. Find the wrong number in the given series ?
15, 28, 30, 39, 48 **(SSC CHSL 2015)**
(a) 28 (b) 15
(c) 30 (d) 39

DIRECTIONS (Qs. 163-164): *In the following Questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?*

(SSC CGL 1st Sit. 2015)

163. ccbab _ caa _ bccc _ a _
(a) babb (b) bbba
(c) baab (d) babc

164. a_ _ dba_ _bcad__ _da__ _cd
(a) bccdbcab (b) abcddcba
(c) cbcddcba (d) aabbccdd

DIRECTIONS (Qs. 165-166): *In the following two Questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.*

(SSC CGL 1st Sit. 2015)

165. 4, 6, 10, 16, 24, ?
(a) 28 (b) 30
(c) 34 (d) 40

166. 3, 5, 9, 17, ?
(a) 26 (b) 65
(c) 33 (d) 42

167. Choose the correct alternative to complete the series.
Lily, Daisy, Datura, ? **(SSC CGL 1st Sit. 2015)**
(a) Sun Flower (b) Hibiscus
(c) Marigold (d) Jasmine

DIRECTIONS (Qs. 168-170): *In questions, which one set of letters/numbers when sequentially placed at the gaps in the given letter series shall complete it ?*

(SSC CGL 2nd Sit. 2015)

168. SH _ ELAS _ EELA _ HEELA SHEE _ A
(a) HHSS (b) EEHS
(c) ELHA (d) EHSL

169. 12_ 41 _ 34123 _ _ 234
(a) 3212 (b) 2134
(c) 3241 (d) 1432

170. _ _ aba _ _ ba _ ab
(a) abbbb (b) baabb
(c) bbaba (d) abbab

171. Find the missing number ?
2, 5, 10, 17, 26, ? **(SSC CGL 2nd Sit. 2015)**
(a) 36 (b) 49
(c) 37 (d) 47

DIRECTIONS (Qs. 172-173): *A series is given,with one term missing. Choose amongst the given responses choose the meaningful one.*

(SSC CGL 1st Sit. 2016)

172. CUS, DVT, EWU, ____
(a) FXV (b) VXF
(c) XFV (d) XVF

173. 206, 221, 251, 296, ?, 431
(a) 326 (b) 356
(c) 311 (d) 341

174. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series:
ALZ,CJV,EHR,GFN,? **(SSC CGL 2016)**
(a) JDJ (b) IEK
(c) IDJ (d) JEK

175. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series:
8, 24, 12, ?, 18, 54 **(SSC CGL 2016)**
(a) 48 (b) 36
(c) 29 (d) 21

176. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
CAT , DBT , ECT , ? **(SSC CGL 2016)**
(a) DCT (b) FDT
(c) FCT (d) FAT

177. A series is given , with one term missing . Choose the correct alternative from the given ones that will complete the series.
5 , 11 , 24 , 51 , 106 , ____ ?
(a) 122 (b) 217
(c) 120 (d) 153

DIRECTIONS (Qs. 178-179): *In the following questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?*

(SSC Stenographer 2016)

178. bb_aab_caab_ca_
(a) cbba (b) acab
(c) abbc (d) bcab

179. _cdb_ddb_db_ _cd
(a) bbcbb (b) ccbcc
(c) bbbcc (d) cccbc

DIRECTIONS (Qs. 180-183): *A series is given with one (or more) term missing. Choose the correct alternative from the given ones that will complete the series :*

(SSC Stenographer 2016)

180. 720, 180, 176, 44, 40, 10, __?__
(a) 6, 4 (b) 8, 6
(c) 6, 1.5 (d) 4, 2

181. 5, 10, 20, 40, 80, __?__
(a) 150 (b) 160
(c) 120 (d) 140

182. C4X, F9U, I16R, __?__
(a) L27P (b) K25P
(c) L25P (d) L25O

183. 15, 21, 57, __?__,221
(a) 121 (b) 126
(c) 96 (d) 108

184. Which one set of letters when sequentially placed at the gaps in the letter series shall complete it? **(SSC Sub. Ins. 2016)**
_qpx_rq_xxr_pxx_qp_x
(a) rxpqrx (b) pxrqxr
(c) xrprqx (d) rspprx

DIRECTIONS (Qs. 185-186): *A series is given, with one term missing. Choose the correct alternative from the given options that will complete the series.*

(SSC Sub. Ins. 2016)

185. 3, 17, 45, 87, __?__
(a) 143 (b) 153
(c) 183 (d) 123

186. AZWD, CXUF, __?__, GTQJ
(a) EVSH (b) EUTH
(c) EUSH (d) EVPI

187. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. **(SSC CGL 2017)**
BCF, CDG, DEH, ?
(a) EFI (b) EFG
(c) DFI (d) EGI

188. In the following question, select the missing number from the given series. **(SSC CGL 2017)**
2, 5, 12, 27, ?
(a) 53 (b) 56
(c) 57 (d) 58

189. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. **(SSC CGL 2017)**
Q, P, O, N, ?
(a) M (b) L
(c) O (d) J

190. In the following question, select the missing number from the given series. **(SSC CGL 2017)**
6, 9, 15, 24, 39, 63, ?
(a) 97 (b) 115
(c) 102 (d) 124

DIRECTIONS (Qs. 191 - 192) : *A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.*

(SSC CGL 2017)

191. AG, LR, WC, HN, ?
(a) QY (b) RX
(c) SY (d) TZ

192. 13, 16, 11, 18, 9, 20, ?
(a) 3 (b) 5
(c) 6 (d) 7

193. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
BT, DR, FP, ?
(a) HO (b) HN
(c) NH (d) OH

194. In the following question, select the missing number from the given series.
3, 8, 5, 27, 8, 64, 12, 125, 17, ?
(a) 216 (b) 361
(c) 625 (d) 441

DIRECTIONS (195-198): *Choose the correct alternative from the given ones that will complete the series.*

(SSC CHSL 2017)

195. Double, Triple, Quadruple, ?
(a) Quintuple (b) Nonuple
(c) Sextuple (d) Octuple

196. AC, EG, ?, MO
(a) IK (b) IJ
(c) IL (d) IM

197. ?, WX, AB, FG
(a) TU (b) XW
(c) PQ (d) UV

198. 30, 60, 360, 3600, ?
(a) 48500 (b) 50500
(c) 50400 (d) 40800

DIRECTIONS (199-200): *A series is given with one term missing. Out of the four alternatives, choose the alternative that will complete the series.*

(SSC MTS 2017)

199. 5, 7, 11, 17, 25, ?
(a) 35 (b) 32
(c) 34 (d) 33

200. BKS, DJT, FLU, HHV, ?
(a) IGU (b) IGX
(c) JGW (d) IJX

DIRECTIONS (Qs. 201-204) : *A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.*

201. A, B, D, G, ? **(SSC Sub. Ins. 2017)**
(a) K (b) J
(c) L (d) I

202. VWR, TUP, RSN, ?
(a) PLQ (b) PQL
(c) LPQ (d) PRM

203. 3, 10, 31, 94, ?
(a) 197 (b) 127
(c) 283 (d) 317

204. 3, 4, 12, 48, 576, ?
(a) 27648 (b) 13824
(c) 23040 (d) 28166

DIRECTIONS (Qs. 205 - 208) : *In the following question, select the missing number from the given series.*

(SSC Sten. 2017)

205. 2, 5, 11, 23, ?
(a) 47 (b) 44
(c) 44 (d) 43

206. 2, 3, 7, 16, 32, ?
(a) 57 (b) 76
(c) 62 (d) 67

207. 8, 11, 14, 17, 20, ?
(a) 21 (b) 22
(c) 23 (d) 27

208. 18, 14, 10, 6, ?
(a) 2 (b) 3
(c) 4 (d) 5

DIRECTIONS (Qs. 209 - 211) : *A series is given with one term missing. Select the correct the correct alternative system from the given ones that will complete the series.*

209. ADCB, FIHG, KNML, ?
(a) PSRQ (b) PSQR
(c) QTRS (d) QSTR

210. BDG, HJM, NPS, ?
(a) TVY (a) TVW
(c) UVX (d) UWZ

211. GF, KJ, ON, ?
(a) RS (b) SR
(c) ST (d) TS

212. Select the term that will come next in the following series.
3, 4, 5, 6, 9, 10, 11, 12, 15, ? **(SSC CGL 2018)**
(a) 16 (b) 17
(c) 14 (d) 18

213. Which letter will replace the question mark (?) in the following series? **(SSC CGL 2018)**
A, B, E, J, Q, ?
(a) A (b) Y
(c) X (d) Z

214. Select the option that will come next in the following series.
BOP, DPN, FQL, HRJ, ? **(SSC CGL 2018)**
(a) JSH (b) JSI
(c) ISH (d) ITI

215. Select the term that will come next in the following series.
114,127, 153,192, 244, ? **(SSC CGL 2018)**
(a) 309 (b) 361
(c) 344 (d) 284

216. Select the term that will come next in the following series.
DGJ, BDN, ZAR, XXV, ? **(SSC CGL 2018)**
(a) VUZ (b) UUZ
(c) VUY (d) VTZ

217. Select the term that will come next in the following series.
M, E, P, H, S, ?, V, N **(SSC CGL 2018)**
(a) U (b) K
(c) M (d) J

218. Which letter-pair will replace the question mark (?) in the following series? **(SSC CHSL 2018)**
JG, LI, ? , VS, DA
(a) PM (b) QM
(c) PQ (d) OR

219. Which number will replace the question mark (?) in the following series? **(SSC CHSL 2018)**
6, 12, 36,144, ?
(a) 720 (b) 520
(c) 620 (d) 420

220. Which number will replace the question mark (?) in the following series?
4, 10,18, 38, ?, 150
(SSC Sub. Ins. 2018)
(a) 84 (b) 70
(c) 78 (d) 74

221. Which letter will replace the question mark (?) in the following series?
B, D, G, I, L, ?, Q **(SSC Sub. Ins. 2018)**
(a) P (b) N
(c) O (d) M

222. Which letter-cluster will replace the question mark (?) in the following series?
BECD, FIGH, KNLM, ?, XAYZ **(SSC Sub. Ins. 2018)**
(a) QWSU (b) ORPQ
(c) PSQR (d) QTRS

223. Which number will replace the question mark (?) in the following series? **(SSC Sub. Ins. 2018)**
3, 4, 7, 11, 18, ?
(a) 31 (b) 25
(c) 29 (d) 22

224. Which number will replace the question mark (?) in the following series? **(SSC Sub. Ins. 2018)**
0, 1, 5, 14, 30, ?
(a) 55 (b) 53
(c) 43 (d) 46

225. Which one set of letters when sequentially placed at the gaps in the given letter series would complete it?
(SSC Stenographer 2018)
fgg _____ gff _____ f _____ gfg _____ fgf
(a) fggf (b) ccfc
(c) fgfg (d) ffgg

226. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
0, 2, 3, 5, 10, 18, 33, 61, 112, _____
(a) 178 (b) 198
(c) 186 (d) 206

227. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
1, 0, 5, 124, 11, 1330, 17, _____
(a) 4129 (b) 4138
(c) 4912 (d) 4813

228. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
L, K, I, F, B, W, _____.
(a) S (b) Q
(c) P (d) R

229. Replace the question mark (?) with the suitable option to complete the series. **(SSC Stenographer 2018)**
AKT, BLU, CMV, D?W, EOX
(a) M (b) P
(c) N (d) O

230. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
_____, XEE, VGG, TII, RKK
(a) DCC (b) ZCC
(c) BCC (d) ACC

231. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
12, 24, 96, 576, _____
(a) 4506 (b) 4160
(c) 4608 (d) 4000

232. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
35, 40, 50, 70, 110, ?
(a) 140 (b) 170
(c) 190 (d) 160

233. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
6, 9, 15, 27, 51, _____
(a) 99 (b) 77
(c) 66 (d) 88

234. Observe the series and answer the question. What will be the fourth letter of the missing term?
BPCR, DPES, FPGT, ?, JPKV **(SSC Stenographer 2018)**
(a) Y (b) U
(c) X (d) W

235. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
2, 3, 9, 12, 30, 39, 93, _____
(a) 201 (b) 120
(c) 102 (d) 210

236. Select the correct option that will fill in the blank and complete the series. **(SSC Stenographer 2018)**
P_2CT, _____, PCT_4, P_5CT, PC_6T
(a) PC_3T (b) P_2C_3T
(c) P_2C_2T (d) PCT_7

237. Replace the question mark (?) with the suitable option to complete the series. MA?, PDF, SGI, VJL **(SSC Stenographer 2018)**
(a) D (b) G
(c) C (d) J

238. Select the set of letters that when sequentially placed in the blanks of the given letters series will complete the series. **(SSC CGL 2019-20)**
k_lmml_mk_mmk_lkkl_m
(a) k, l, k, l, m (b) k, l, m, k, k
(c) k, m, m, k, l (d) l, k, m, k, k

239. Select the number that can replace the question mark (?) in the following series. **(SSC CGL 2019-20)**
17, 21, 30, 46, 71, ?
(a) 96 (b) 105
(c) 101 (d) 107

240. Select the letter-cluster that can replace the question mark (?) in the following series. **(SSC CGL 2019-20)**
CXB, HUI, MRP, ROW, ?
(a) VKD (b) VKC
(c) WLD (d) WLZ

241. Select the number that can replace the question mark (?) in the following series. **(SSC MTS 2019-20)**
16, 20, 29, 45, 70, ?
(a) 106 (b) 116
(c) 96 (d) 126

242. Select the number that can replace the question mark (?) in the following series. **(SSC MTS 2019-20)**
31, 44, 58, 73, 89, ?
(a) 105 (b) 106
(c) 115 (d) 116

243. Select the letter-pair that can replace the question mark (?) in the following series. **(SSC MTS 2019-20)**
AR, CU, EX, GA, ?
(a) JE (b) ID
(c) IF (d) KF

244. Complete the following series. **(SSC CHSL 2019-20)**
7, 16, 34, 70, ____, ____
(a) 144, 292 (b) 144, 286
(c) 142, 286 (d) 142, 294

245. Complete the following series by replacing the question mark (?) given in the series. **(SSC CHSL 2019-20)**
AZ, CX, EV, ? IR
(a) GS (b) GT
(c) HT (d) FT

246. Select the combination of letters that when sequentially placed from left to right in the blanks of the given letter series will complete the series. **(SSC CHSL 2019-20)**
bc daabc a ccd

(a) cacdcab (b) aaccdab
(c) accdaac (d) acccdcb

247. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
UTMD, QXIH, MBEL, IFAP, ? **(SSC CGL 2020-21)**
(a) EKXT (b) EKWU
(c) EJWT (d) DJVT

248. Select the number from among the given options that can replace the question mark (?) in the following series.
27, 30, 37, 50, ?, 98 **(SSC CGL 2020-21)**
(a) 78 (b) 69
(c) 82 (d) 62

249. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. **(SSC CGL 2020-21)**
Q_A D _ R _ K A D P _ Q K A _ P R Q K _ D _ R
(a) K, P, Q, R, D, A, P (b) K, P, Q, R, D, A, Q
(c) K, P, R, Q, D, A, P (d) K, P, Q, R, A, D, P

250. Select the number that can replace the question mark (?) in the following series.
25, 26, 53, 160, 641, ? **(SSC CHSL 2020-21)**
(a) 3403 (b) 2908
(c) 3206 (d) 3202

251. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
c k _ g k c _ t _ k_k t g _ c k _ g k **(SSC CHSL 2020-21)**
(a) t, k, c, g, k , t (b) t, k, g, c, k, t
(c) t, k, g, c, c, t (d) t, g, k, c, k, t

252. Which number will replace the question mark (?) in the following number series? **(SSC MTS 2020-21)**
9, 12, 17, 26, 43, 76, ?, 270
(a) 141 (b) 125
(c) 133 (d) 154

253. Which number will replace the question mark (?) in the following number series? **(SSC MTS 2020-21)**
19, 22, 28, 37, 40, ?, 55, 58
(a) 43 (b) 49
(c) 46 (d) 47

254. Which letter-cluster will replace the question mark (?) in the following series? **(SSC MTS 2020-21)**
CBD, XYM, FEG, UVT, IHJ, ?
(a) STR (b) ORP
(c) RSQ (d) RQS

255. Which of the following letter-cluster will replace the question mark (?) in the given series?
DMKY, HQOC, MVTH, SBZN, ?
(SSC Stenographer 2020-21)
(a) ZIGU (b) ZKGV
(c) AIHU (d) ZJGT

256. Select the number from among the given options that can replace the question mark (?) in the following series.
2, 11, 28, 53, ?, 127 **(SSC Stenographer 2020-21)**
(a) 86 (b) 92
(c) 74 (d) 98

257. What was the day of the week on 19 February 2011?
(SSC Stenographer 2020-21)
(a) Monday (b) Tuesday
(c) Saturday (d) Sunday

258. Which number will replace the question mark (?) in the given series?
14, 30, 64, 130, ?, 530, 1064 **(SSC Stenographer 2020-21)**
(a) 364 (b) 464
(c) 264 (d) 164

259. Which of the following letter-cluster will replace the question mark (?) in the given series?
RTCQ, TWGV, VZKA, XCOF, ?
(SSC Stenographer 2020-21)
(a) ZFTL (b) ZGSL
(c) YFTK (d) ZFSK

260. Which of the following numbers will replace the question mark (?) in the given series?
56, 59, 65, 68, 74, ?, 83 **(SSC Stenographer 2020-21)**
(a) 85 (b) 77
(c) 82 (d) 78

261. Which of the following letter-cluster will replace the question mark (?) in the given series?
JOD, FKZ, BGV, ? **(SSC Stenographer 2020-21)**
(a) WDR (b) YCR
(c) XCS (d) XCR

262. Which of the following numbers will replace the question mark (?) in the given series?
77, 78, 74, 83, 67, ? **(SSC Stenographer 2020-21)**
(a) 188 (b) 88
(c) 92 (d) 192

263. Which number will replace the question mark (?) in the following series?
2430. ? , 270, 90, 30, 10 **(SSC Sub-Inspector 2020-21)**
(a) 800 (b) 805 (c) 810 (d) 540

264. Which number will replace the question mark (?) in the following series?
82, ?, 119, 142, 168, 197 **(SSC Sub-Inspector 2020-21)**
(a) 99 (b) 95 (c) 85 (d) 107

265. Select the letter-cluster that can replace the question mark (?) in the given letter-cluster series.
XMT, ENA, LOH, SPO, ? **(SSC Sub-Inspector 2020-21)**
(a) YQU (b) ZQZ (c) YPC (d) ZQV

266. Select the letter-cluster that can replace the question mark (?) in the given letter-cluster series.
HBS, GDP, FFM, ? , DJG **(SSC Sub-Inspector 2020-21)**
(a) EHJ (b) EGI (c) EHG (d) DHJ

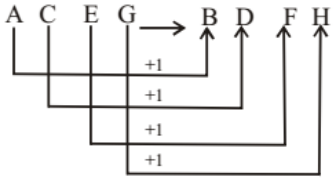
267. Which number will replace the question mark (?) in the following series?
17, 51, 58, 116, 123, 123, ? **(SSC Sub-Inspector 2020-21)**
(a) 150 (b) 130 (c) 140 (d) 120

268. Which number will replace the question mark (?) in the following series?
112, ?, 83, 70, 58, 47, 37 **(SSC Sub-Inspector 2020-21)**
(a) 94 (b) 97 (c) 100 (d) 104

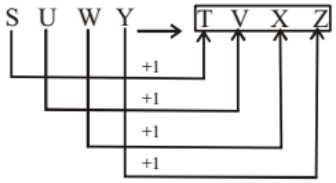
269. Select the letter-cluster that can replace the question mark (?) in the given letter-cluster series.
AE, KQ, El, LR, IO, ? , OU, NT
(SSC Sub-Inspector 2020-21)
(a) NR (b) MR (c) NS (d) MS

Hints & Solutions

1. (c) As,



Similarly,



2. (c) The pattern is as follows :

$B \xrightarrow{+1} C \xrightarrow{+2} E \xrightarrow{+3}$

$H \xrightarrow{+4} L \xrightarrow{+5} \boxed{Q} \xrightarrow{+6} \boxed{W}$

3. (b) a $\boxed{b}$ b $\boxed{n}$ / a $\boxed{bb}$ n / $\boxed{a}$ bb $\boxed{n}$ / abbn

4. (d) 126 98 70 42 14

−28 −28 −28 −28

Therefore, the number 41 is wrong in the series.

5. (d) $3 + 1 = 4$; $3 + 4 = 7$;

$4 + 7 = 11$; $7 + 11 = 18$

$11 + 18 = 29$; $18 + 29 = \boxed{47}$

6. (a)

A	C	E	G	I	K	
G	I	K	M	O	Q	
M	O	Q	S	U	W	
S	U	W	Y	A	C	
Y	A	C	E	G	I	

7. (c) 975 864 753 642 $\boxed{531}$

−111 −111 −111 −111

8. (b) 8 24 12 (36) 18 54

×3 ÷2 ×3 ÷2 ×3

9. (c) 1 9 25 49 81

$(1)^2$ $(3)^2$ $(5)^2$ $(7)^2$ $(9)^2$

Therefore, the number 50 is wrong in the series.

10. (a) $\boxed{a}$ a $\boxed{b}$ a/ aaba/ $\boxed{aa}$ ba / $\boxed{a}$ ab $\boxed{a}$

11. (b) There are two alternating series :

$a \xrightarrow{+2} c \xrightarrow{+2} e \xrightarrow{+2} g \xrightarrow{+2} (i)$

$r \xrightarrow{+1} s \xrightarrow{+1} t \xrightarrow{+1} (u)$

Therefore, ? = ui

12. (b) The pattern is as follows :

$P \xrightarrow{+3} S \xrightarrow{+3} V \xrightarrow{+3} Y \xrightarrow{+3} B$

$E \xrightarrow{+3} H \xrightarrow{+3} K \xrightarrow{+3} N \xrightarrow{+3} Q$

$T \xrightarrow{+3} W \xrightarrow{+3} Z \xrightarrow{+3} C \xrightarrow{+3} F$

$I \xrightarrow{+3} L \xrightarrow{+3} O \xrightarrow{+3} R \xrightarrow{+3} U$

Now, $P \xrightarrow{+4} T, E \xrightarrow{+4} I$

Therefore, the first letter of the first term should be

$E \xrightarrow{-4} A$

$A \xrightarrow{+3} D \xrightarrow{+3} G \xrightarrow{+3} J \xrightarrow{+3} M$

13. (d) The pattern is as follows :

0 4 18 48 $\boxed{100}$ 180

+4 +14 +30 +52 +80

+10 +16 +22 +28

+6 +6 +6

14. (c) The pattern is as follows :

36 28 24 22 $\boxed{21}$

−8 −4 −2 −1

15. (c) The pattern is as follows :

7 9 13 21 37 $\boxed{69}$

+2 +4 +8 +16 +32

×2 ×2 ×2 ×2

16. (d) $232 + 111 = 343$

$343 + 111 = 454$

$454 + 111 = \boxed{565}$

$565 + 111 = 676$

The number 564 does not belong to the series.

17. (c) $\boxed{b}$cb/$\boxed{a}$ca/b$\boxed{c}$b/aca/$\boxed{b}$

cb/a$\boxed{c}$a/b

18. (a) XYZ UVW $\boxed{R}$ ST

CBA FE$\boxed{D}$

19. (b) Here, the pattern is as follows :

$r \xrightarrow{-2} p \xrightarrow{-2} n \xrightarrow{-2} l \xrightarrow{-2}$ j

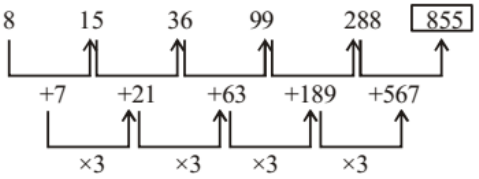
$e \xrightarrow{+2} g \xrightarrow{+2} i \xrightarrow{+2} k \xrightarrow{+2}$ m

$o \xrightarrow{-2} m \xrightarrow{-2} k \xrightarrow{-2} i \xrightarrow{-2}$ g

$c \xrightarrow{+2} e \xrightarrow{+2} g \xrightarrow{+2} i \xrightarrow{+2}$ k

20. (c) The pattern is as follows :
$4=(2)^2; 16=(4)^2; 36=(6)^2;$
$64=(8)^2; 196=(14)^2; 169=(13)^2;$
$144=(12)^2;$

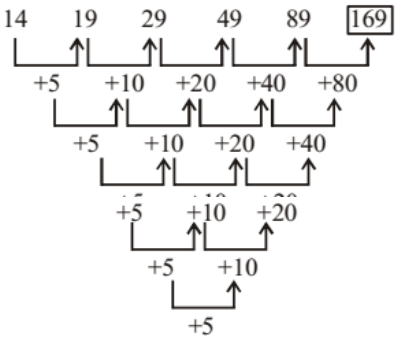
21. (c) The pattern is as follows :



22. (c) $6+3=9, 9+6=15\ 15+12=$ [27], $27+24=51, 51+48=99$

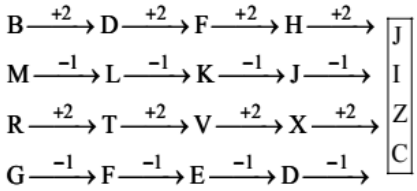
23. (d) [a] a b [a] b / [a] a b a [b] / [a] ab ab

24. (d) The pattern is as follows :



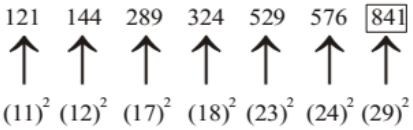
So, 169 will complete the series.

25. (a) The pattern is as follows :



So, JIZC will complete the series.

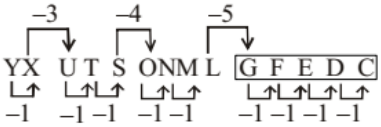
26. (b) The pattern is as follows :



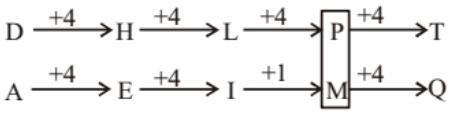
So, 841 will complete the series.

27. (b) The pattern is as follows :
$21-5=16 \Rightarrow 16\times 3=48$
$69-21=48 \Rightarrow 48\times 3=144$
$213-69=144 \Rightarrow 144\times 3 \Rightarrow 432$
$645-213 \Rightarrow 432 \Rightarrow 432\times 3=1296$
and
[1941] $-645=1296$

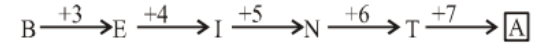
28. (b) The pattern is as follows :



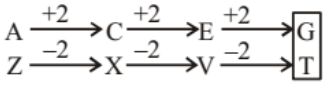
29. (c) The pattern is as follows :



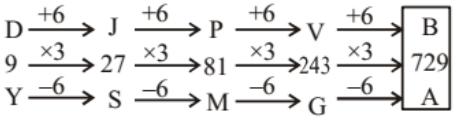
30. (c) The pattern is as follows :



31. (d) The pattern is as follows :



32. (c) The pattern is as follows :



33. (c) [a] c [d] b / d [a] c b / c d a [b] / a [c] d b / [d] a

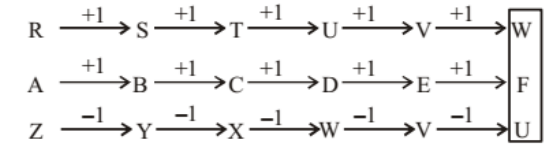
34. (c) $9\times 2+1=18+1=19$
$19\times 2+2=38+2=40$
$40\times 2+3=80+3=83$
$83\times 2+4=166+4=170$
$170\times 2+5=340+5=$ [340]
Therefore, the number 340 is wrong in the series.

35. (d) $21+7=28$
$28+5=33$
$33+3=$ [35]
$36+1=37$
$37-1=36$
Therefore, the number 35 is wrong in the series.

36. (a) $5+8=13$
$13+16=29$
$29+32=61$
$61+64=$ [120]
$125+128=253$
Therefore, the number 120 is wrong in the series.

37. (a) The pattern is:
$(2^3-1), (3^3-1), (4^3-1), (5^3-1).$
Therefore, the number 28 is wrong in the series.

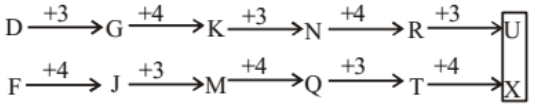
38. (b) The pattern is :



39. (d) [AA] [BB] [CC]
[DD] [EE] [FF]

40. (b) B +7 I +7 P +7 [W] +7 D

41. (a)



42. (d) a [b] b a / [a] c [c] a / a d [d] a / a [e] e a

43. (d) a a [b] a a / b b [a] b [b] / a a [b] a a / b b [a] b b

44. (d) As, 17 + 19 = 36
36 + 17 = 53
53 + 15 = 68
68 + 13 = [81] 83
81 + 11 = 92

45. (c) c [b] a / b [a] c / a [c] b / c [b] a

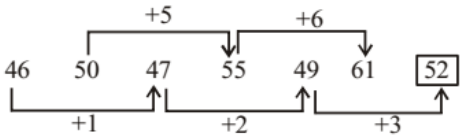
46. (b) [a] b / a [b] b / ab [b] b / abb [b] b

47. (d) $500 - (4)^2 = 484$
$484 - (5)^2 = 459$
$459 - (6)^2 =$ [423]
$423 - (7)^2 = 374$

48. (b) MNO[P] $\xrightarrow{+2}$ [R]STU
WXY[Z] $\xrightarrow{+2}$ [B]CD[E]

49. (a) $60 + (3)^2 = 69$
$69 + (4)^2 = 85$
$85 + (5)^2 =$ [110]
$110 + (6)^2 = 146$

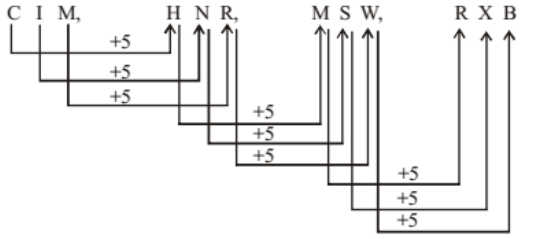
50. (b)



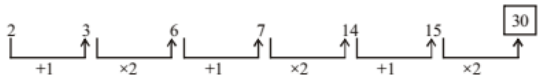
51. (a) a b c b c a ca b / a b c bc a c ab.

52. (a) BCFG ⟶ 2, 3, 6, 7
JKNO ⟶ 10, 11, 14, 15
RSVW ⟶ 18, 19, 22, 23
Next sequence = 26, 27, 30, 31 = 26, 1, 4, 5 = Z A D E (subtract the excess value by 26)

53. (c)



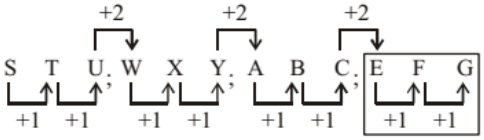
54. (b)



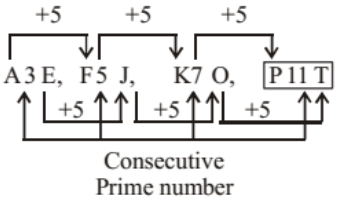
55. (b) 4th term $23 = 5 \times 4 + 3 = 23$
3rd term $122 = 5 \times 23 + 7 = 122$
2nd term $? = 5 \times 122 + 11 = 621$
1st term $3120 = 5 \times$ [621] $+ 15 = 3120$

56. (b)

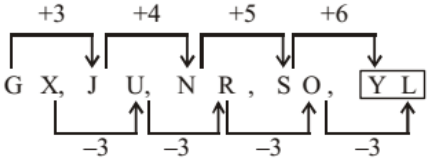
57. (b)



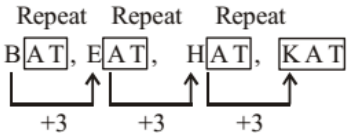
58. (d)



59. (b)



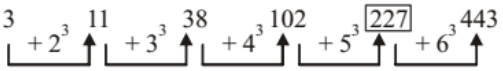
60. (d)



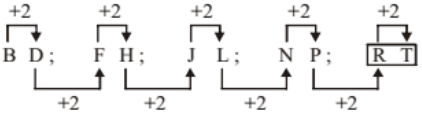
61. (a) The pattern is:
$49 + (0)^2 = 49, 49 + (1)^2 = 50, 50 + (2)^2 = 54$
$54 + (3)^2 = 63, 63 + (4)^2 = 79, 79 + (5)^2 = 104$

62. (a) Except 5, all numbers are perfect square numbers.

63. (a)

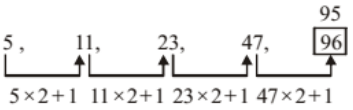


64. (d)

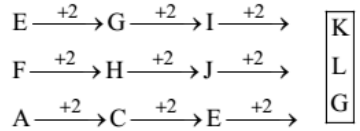


65. (b) m m l l
m m l l
m m l l

66. (c)



67. (c) The pattern is as follows :

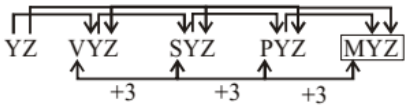


68. (d) 13 → 10
3 has been replaced with zero in the next term.
103 → 100
1003 → 1000
10003.....

69. (b) Reversing number is giving a square number
16, 25, 36, 49, 64, 81 and 18

70. (b) The patterns is as follows :
$5 \times 2 + 3 = 13$
$13 \times 2 + 3 = 29$
$29 \times 2 + 3 = 61$
$61 \times 2 + 3 = 125$
$125 \times 2 + 3 =$ [253]

71. (d) The patterns is as follows :



72. (c) The pattern is as follows :

$P \xrightarrow{+2} R \xrightarrow{+2} T \xrightarrow{+2} V \xrightarrow{+2} \boxed{X}$

$3 \xrightarrow{+2} 5 \xrightarrow{+3} 8 \xrightarrow{+4} 12 \xrightarrow{+5} \boxed{17}$

$C \xrightarrow{+3} F \xrightarrow{+3} I \xrightarrow{+3} L \xrightarrow{+2} \boxed{O}$

73. (a) The pattern is as follows :

$N \xrightarrow{-1} M \xrightarrow{+5} R \xrightarrow{-9} I \xrightarrow{+13} \boxed{V}$

$P \xrightarrow{-5} K \xrightarrow{+9} T \xrightarrow{-13} G \xrightarrow{+17} \boxed{X}$

74. (a) The patterns is as follows :

$A \xrightarrow{+2} C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} \boxed{I}$

$Z \xrightarrow{-2} X \xrightarrow{-2} V \xrightarrow{-2} T \xrightarrow{-2} \boxed{R}$

$\xrightarrow{+2} K \xrightarrow{+2} \boxed{M}$

$\xrightarrow{-2} P \xrightarrow{-2} \boxed{N}$

75. (d) $T \xrightarrow{-3} Q \xrightarrow{-3} N \xrightarrow{-3} K \xrightarrow{-3}$

$H \xrightarrow{-3} E \xrightarrow{-3} B$

$B \xrightarrow{-3} Y \xrightarrow{-3} V \xrightarrow{-3} S \xrightarrow{-3}$

$P \xrightarrow{-3} \boxed{M} \xrightarrow{-3} \boxed{J} \xrightarrow{-3} \boxed{G}$

76. (b) $19 - 18 = 1; 1 \times 2 = 2$

$34 - 32 = 2; 2 \times 2 = 4$

$44 - 41 = 3; 3 \times 2 = \boxed{6}$

77. (b) $\overset{4}{\underset{2}{\leftrightarrow}}\ (4+2)^2 = (6)^2 = 36$

$\overset{3}{\underset{7}{\leftrightarrow}}\ (3+7)^2 = (10)^2 = 100$

$\overset{2}{\underset{5}{\leftrightarrow}}\ (2+5)^2 = (7)^2 = \boxed{49}$

78. (c) $5 \times 2 + 1 = 11$

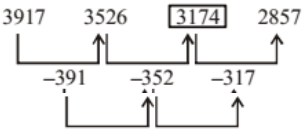
$11 \times 2 + 2 = 24$

$24 \times 2 + 3 = 51$

$51 \times 2 + 4 = 106$

$106 \times 2 + 5 = \boxed{217}$

79. (b)



Subtract first 3 digit from no. to get next no

80. (d) The pattern of the series is as follows :

$E \xrightarrow{+1} F \xrightarrow{+1} G \xrightarrow{+1} H \xrightarrow{+1} \boxed{I}$

$J \xrightarrow{+1} K \xrightarrow{+1} L \xrightarrow{+1} M \xrightarrow{+1} \boxed{N}$

$O \xrightarrow{+1} P \xrightarrow{+1} Q \xrightarrow{+1} R \xrightarrow{+1} \boxed{S}$

81. (a) The pattern is as follows :

$B \xrightarrow{+1} C \xrightarrow{+1} D \xrightarrow{+1} E \xrightarrow{+1} \boxed{F}$

$O \xrightarrow{-1} N \xrightarrow{-1} M \xrightarrow{-1} \boxed{L}$

? = LF

82. (a) $7 - 2 = 5; 7 + 2 = 9 \Rightarrow 7, 2 = 59$

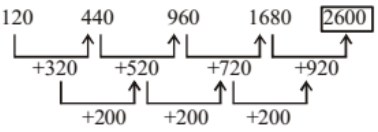
$5 - 3 = 2; 5 + 3 = 8 \Rightarrow 5, 3 = 28$

$9 - 1 = 8; 9 + 1 = 10 \Rightarrow 9, 1 = 810$

$2 - 1 = 1; 2 + 1 = 3 \Rightarrow 2, 1 = 13$

Therefore, $5 - 4 = 1; 5 + 4 = 9 \Rightarrow 5, 4 = \boxed{19}$

83 (a) The pattern is as follows :



84. (d) b a a / b b / b a a / b b b

85. (d) a b c a b / b c a b c / c a b c a / a b

86. (a) $C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I \xrightarrow{+2} \boxed{K} \xrightarrow{+2} \boxed{M}$

$3 \xrightarrow{+2} 5 \xrightarrow{+2} 7 \xrightarrow{+2} 9 \xrightarrow{+2} \boxed{11} \xrightarrow{+2} \boxed{13}$

87. (b) $5 \times 3 + 1 = 16$

$16 \times 3 + 3 = 51$

$51 \times 3 + 5 = 158$

$158 \times 3 + 7 = \boxed{481}$

88. (a) As,

$9 \times 2 : 9 \times 9$

$= 18 : 81$

Similarly,

$9 \times 5 : 9 \times 6$

$45 : 54$

The digits of resultant have interchanged positions.

89. (a) $A \xrightarrow{+5} F \xrightarrow{+3} I$

$J \xrightarrow{+5} O \xrightarrow{+3} R$

$M \xrightarrow{+5} R \xrightarrow{+3} U$

Similarly,

$H \xrightarrow{+5} M \xrightarrow{+3} P$

90. (d) bc → cde → de → efg → fg → $\boxed{ghi}$

91. (c) $A \xrightarrow{+5} F \xrightarrow{+5} \boxed{K} \xrightarrow{+5} P \xrightarrow{+5} U \xrightarrow{+5} Z$

$K \xrightarrow{+5} P \xrightarrow{+5} \boxed{U} \xrightarrow{+5} Z \xrightarrow{+5} E \xrightarrow{+5} J$

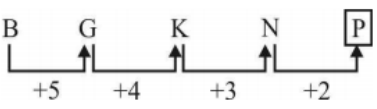
$U \xrightarrow{+5} Z \xrightarrow{+5} \boxed{E} \xrightarrow{+5} J \xrightarrow{+5} O \xrightarrow{+5} T$

92. (c) $M \xrightarrow{-1} L \xrightarrow{-1} K \xrightarrow{-1} \boxed{J}$

$R \xrightarrow{+2} T \xrightarrow{+2} V \xrightarrow{+2} \boxed{X}$

$S \xrightarrow{+2} U \xrightarrow{+2} W \xrightarrow{+2} \boxed{Y}$

93. (a)



94. (b) $6 \times 3 = (18)$
$18 \times 6 = 108$
$108 \times 18 = 1944$
Hence, 18 is the missing number in the sequence.

95. (d) $251 - 107 = 144 = (12)^2$
$\therefore \quad 381 - 125 = 256 = (16)^2$
Hence, 16 is the missing number in the given question.

96. (b) $354 + 526 = \frac{880}{8} = 110$

$\therefore \quad 297 + 631 = \frac{928}{8} = \boxed{116}$

97. (d) 0, 7, 26, 63, [124]
$1^3 - 1$, $2^3 - 1$, $3^3 - 1$, $4^3 - 1$, $5^3 - 1$

98. (d) 2 (+3) 5 (+5) 10 (+9) 19 (+17) 36 (+33) [69]
$2 \times 2 - 1$, $3 \times 2 - 1$, $5 \times 2 - 1$, $9 \times 2 - 1$, $17 \times 2 - 1$

99. (c) a a b/ a a b/ aa b/ aa b

100. (c)

101. (a) a [a] [b] b a b b a / [a] a bb a [b] ba

102. (a) A Z B [Y] / A Z [B] Y / A [Z] BY / [A] ZBY

103. (c) 102 – 1 = 101; 101 – 3 = 98; 98 – 5 = 93;
93 – 7 = 86
86 – 9 = [77]
77 – 11 = 66
66 – 13 = 53
Therefore, the number 74 is wrong in the sequence.

104. (d) E $\xrightarrow{+2}$ G $\xrightarrow{+2}$ I $\xrightarrow{+2}$ [K] $\xrightarrow{+2}$ M
L → L → L → [L] → L
F $\xrightarrow{+2}$ H $\xrightarrow{+2}$ J $\xrightarrow{+2}$ [L] $\xrightarrow{+2}$ N
A → A → A → [A] → A

105. (b) 4 18 48 [100] 180
+14 +30 +52 +80
+16 +22 +28
+6 +6

106. (a) FGH : H $\xrightarrow{+2}$ J ; JKL : L $\xrightarrow{+2}$ N
NOP : P $\xrightarrow{+2}$ R ; RS : [T]

107. (b) 0 3 8 15 24 [35]
+3 +5 +7 +9 +11
+2 +2 +2 +2
The two consecutive letters are pairs of opposite letters.
b ↔ y; c ↔ x : d ↔ w
Therefore, ? = w – 35.

108. (d) 54 30 → 24
$30 + 24 = 54$
112 42 → 70
$42 + 70 = 112$
Therefore,
? 28 → 38
$? = 28 + 38 = \boxed{66}$

109. (b) $15 + 29 = 44$
$44 + (29 - 9) = 64$
$12 + 16 = 28$
$28 + (16 + 9) = 53$
$3 + 5 = 8 ; 8 + 5 = \boxed{13}$

110. (b) 95 115 145 155 [175]
+20 +30 +10 +20
–10 –10

111. (c) 1 3 8 19 42 [89]
+2 +5 +11 +23 +47
+3 +6 +12 +24
×2 ×2 ×2

112. (a) K $\xrightarrow{+4}$ O $\xrightarrow{+4}$ S $\xrightarrow{+4}$ [W]
J $\xrightarrow{+4}$ N $\xrightarrow{+4}$ R $\xrightarrow{+4}$ [V]
L $\xrightarrow{+4}$ P $\xrightarrow{+4}$ T $\xrightarrow{+4}$ [X]

113. (b) $198 + (2)^2 = 202$
$202 + (3)^2 = 211$
$211 + (4)^2 = 227$
$227 + (5)^2 = \boxed{252}$

114. (b) A $\xrightarrow{+1}$ B $\xrightarrow{+1}$ C $\xrightarrow{+1}$ D $\xrightarrow{+1}$ [E]
N $\xrightarrow{+1}$ O $\xrightarrow{+1}$ P $\xrightarrow{+1}$ Q $\xrightarrow{+1}$ [R]

115. (b) 7 25 61 121 [211]
+18 +36 +60 +90
+18 +24 +30
+6 +6

116. (b) *a c b / c c b / a c b / c c b / a c b*

117. (b) 15 23 31 39 [47] 55 63
+8 +8 +8 +8 +8 +8

118. (b) 2 3.5 5 6.5 8 [9.5]
+1.5 +1.5 +1.5 +1.5 +1.5

119. (b) 32 58 92 134 [184]
+26 +34 +42 +50
+8 +8 +8

120. (a) –2 –2 –2
Y V P , W T N , U R L , [S P J]
–2 –2 –2
–2 –2 –2

121. (d) 2 8 18 32 50 [72]
+6 +10 +14 +18 +22
+4 +4 +4 +4

122. (b) $1+1\times2=3$, $3+2\times2=7$, $7+4\times2=15$
$15+8\times2=31$, $31+16\times2=$ [63]

123. (a) a a a a a |
b b b b b |
a a a a a |
a a a a a |
b b b b b .

124. (b) 112 124 156 208 [280]
+12 +32 +52 +72
+20 +20 +20

125. (c) 96 101 126 187 [300]
+5 +25 61 113
(1^2+2^2) (3^2+4^2) (5^2+6^2) (7^2+8^2)

126. (a) B A F E J I P O [V] U
–1 –1 –1 –1 –1

127. (c) r t x y / s x y z / r t x y / s x y z

128. (a) F $\xrightarrow{+1}$ G $\xrightarrow{+1}$ H $\xrightarrow{+1}$ I $\xrightarrow{+1}$ J
A $\xrightarrow{+0}$ A $\xrightarrow{+0}$ A $\xrightarrow{+0}$ A $\xrightarrow{+0}$ A
G $\xrightarrow{-1}$ F $\xrightarrow{+3}$ I $\xrightarrow{-1}$ H $\xrightarrow{+3}$ K

129. (c) $3+3=6$; $6+3=9$; $9+6=15$
$15+9=24$
$24+15=39$
$39+24=63$
$63+39=102$

130. (b) –1 0 (3) 8 15 24
+1 +3 +5 +7 +9

131. (b) 7 14 23 34 (47)
+7 +9 +11 +13

132. (d) A $\xrightarrow{+5}$ F $\xrightarrow{+5}$ K $\xrightarrow{+5}$ [P] $\xrightarrow{+5}$ U
E $\xrightarrow{+5}$ J $\xrightarrow{+5}$ O $\xrightarrow{+5}$ [T] $\xrightarrow{+5}$ Y

133. (d) There are two series:
+1 +1 +1
3 15 4 16 5 17 6 (18)
+1 +1 +1

134. (c) 68 81 96 (113) 132
+13 +15 +17 +19

135. (c) $2\times2+1$ $2\times3+1$ $2\times4+1$ $2\times5+1$
1 2 1 2 5 3 3 7 4 4 9 5 [5 1 1 6]
+1 +1 +1 +1
$1\times2+1$ $1\times3+1$ $1\times4+1$ $1\times5+1$

136. (c) C $\xrightarrow{+4}$ G $\xrightarrow{+4}$ K $\xrightarrow{+4}$ O $\xrightarrow{+4}$ (S)
E $\xrightarrow{+4}$ I $\xrightarrow{+4}$ M $\xrightarrow{+4}$ Q $\xrightarrow{+4}$ (U)

137. (a) R $\xrightarrow{-3}$ O $\xrightarrow{-3}$ L $\xrightarrow{-3}$ I $\xrightarrow{-3}$ F $\xrightarrow{-3}$ (C)

138. (a) $3+0=3$
$2+7=9$
$3+6=9$
$5+6=9$
$4+5=9$
$7+2=9$

139. (c) a c b d /
c a d b /
a c b d /
c a d b /
a c b d

140. (b) *acbc/ acbc/ acbc/ acbc/ acbc*

141. (c) –2 –3 –4
A Z C X F U [J Q]
+2 +3 +4

142. (c) $1\times2=2$
$2\times3=6$
$6\times4=24$
$24\times5=$ [120]
$120\times6=720$

143. (a) 156, 506, ?, 1806
$156+350=506$
$506+550=$ [1056]
$1056+750=1806$

144. (b) 8 18 32 50 72 [98]
+10 +14 +18 +22 +26
+4 +4 +4 +4

145. (a) These are two letter series
I Series :
B $\xrightarrow{+2}$ D $\xrightarrow{+2}$ F $\xrightarrow{+2}$ H $\xrightarrow{+2}$ J $\xrightarrow{+2}$ [L]

II Series :

$Z \xrightarrow{-2} X \xrightarrow{-2} V \xrightarrow{-2} T \xrightarrow{-2} \boxed{R} \xrightarrow{-2} \boxed{P}$

So, the correct answer is (a) LRP.

146. (d) $B \xrightarrow{+3} E \xrightarrow{+3} H \xrightarrow{+3} K \xrightarrow{+3} \boxed{N}$

$X \xrightarrow{-4} T \xrightarrow{-4} P \xrightarrow{-4} L \xrightarrow{-4} \boxed{H}$

$J \xrightarrow{+2} L \xrightarrow{+2} N \xrightarrow{+2} P \xrightarrow{+2} \boxed{R}$

147. (a) The sequence is :

$(11)^3, (9)^3, (7)^3, (5)^3 \boxed{(3)^3}$

148. (b) Words LUB and TUP are in consecutive order.

L U B T U P L U B T U P L U B T U P L U B T U P

149. (b) The sequence BBCCA is repeated

B B C C A B B C C A B B C C A B B C C A

150. (d) There are two numbers series:

I. 24, 20, 16, (12) ; –4, –4, –4

II. 35, 31, 27, (23) ; –4, –4, –4

151. (b) $7\frac{1}{7}=\frac{50}{7}$; $8\frac{2}{6}=\frac{50}{6}$; $9\frac{5}{5}=\frac{50}{5}$; $12\frac{2}{4}=\frac{50}{4}$

$16\frac{2}{3}=\frac{50}{3}$; $\frac{50}{7}, \frac{50}{6}, \frac{50}{5}, \frac{50}{4}, \frac{50}{3}, \boxed{\frac{50}{2}}$

152. (d) Y ¾5¾® T ¾4¾® P ¾3¾® M ¾2¾® K

153. (a) $4 \xrightarrow{+7} 11 \xrightarrow{+6} 17 \xrightarrow{+5} 22 \xrightarrow{+4} \boxed{26} \xrightarrow{+3} 29 \xrightarrow{+2} 31 \xrightarrow{+1} 32$

154. (d) $6+\sqrt{216}=6+\sqrt{6\times6\times6}$

$7+\sqrt{343}=7+\sqrt{7\times7\times7}$

$8+\sqrt{512}=8+\sqrt{8\times8\times8}$

$9+\sqrt{729}=9+\sqrt{9\times9\times9}$

$10+10\sqrt{10}=10+\sqrt{1000}$

155. (a) A Z, C X, F U, J Q ; –2, –3, –4 ; +2, +3, +4

156. (b) The series is m b b m a a m b b m a a m b b m

So, missing set of letters is m a b a m

157. (a) 6, 2, 9, 4, 12, (6), (15) ; +3, +3, +3 ; +2, +2

So, missing terms in the series are 6,15.

158. (d) $A \xrightarrow{+3} D \xrightarrow{+4} H \xrightarrow{+5} M \xrightarrow{+6} S \xrightarrow{+7} (Z)$

159. (c) $-1 \xrightarrow{+1} 0 \xrightarrow{+3} 3 \xrightarrow{+5} 8 \xrightarrow{+7} 15 \xrightarrow{+9} (24)$

160. (a)

Letter position from left →	① A	③ C	⑤ E	⑦ G	⑨ I	⑪ K	⑬ M
Letter position from right	① Z	③ X	⑤ V	⑦ T	⑨ R	⑪ P	

161. (c) The series is

a b c c b a a b c c b a a b c c b a a b c c b a

So, missing set of letters is c a b a a.

162. (c) 30

163. (a) c c b a/b b c a/a a b c/c c b a/b

164. (a) a b c d/b a c d/b c a d/b c d a/a b c d.

165. (c) 4, 6, 10, 16, 24, (34) ; +2, +4, +6, +8, +10

166. (c) 3, 5, 9, 17, (33) ; +2, +4, +8, +16

167. (d) Lily, Daisy, Datura all have outer part white and inner part yellow.

Jasmine also has outer part white and inner part yellow.

168. (d) S H E E L A / S H E E L A / S H E E L A / S H E E L A

169. (c) 1 2 3 4 / 1 2 3 4 / 1 2 3 4 / 1 2 3 4

170. (d) a b a b a b a b a b a b

171. (c) 2, 5, 10, 17, 26, 37 ; +3, +5, +7, +9, +11

172. (a) C U S, D V T, E W U, F X V ; +1, +1, +1, +1, +1, +1, +1, +1, +1, +1, +1, +1

173. (b) 206, 221, 251, 296, 356, 431 ; +15, +30, +45, +60, +75

174. (c) A L Z, C J V, E H R, G F N, I D J ; +2, +2, +2, +2, +2, +2, +2, +2, +2, +2, +2, +2 ; –2, –2, –2, –2, –4, –4, –4, –4

175. (b) 8, 24, 12, (36), 18, 54 ; ×3, ÷2, ×3, ÷2, ×3

176. (b) C A T, D B T, E C T, F D T ; +1, +1, +1, +1, +1, +1, +1, +1, +1, +0, +0, +0

177. (b) $5 \times 2 + 1 = 11$
$11 \times 2 + 2 = 24$
$24 \times 2 + 3 = 51$
$51 \times 2 + 4 = 106$
$106 \times 2 + 5 =$ 217

178. (a) b b c a a |
b b c a a |
b b c a a .

179. (a) b c d b b d d |
b c d b b |
b c d .

180. (c) $720/4 = 180$
$180 - 4 = 176$
$176/4 = 44$
$44 - 4 = 40$
$40/4 = 10$
$10 - 4 = 6, 6/4 = 1.5$
The answer is 6, 1.5.

181. (b) 5, 10, 20, 40, 80, 160
×2, ×2, ×2, ×2, ×2

182. (c) There are three series :
I series : C $\xrightarrow{+3}$ F $\xrightarrow{+3}$ I $\xrightarrow{+3}$ L
II series : 4 $\xrightarrow{+5}$ 9 $\xrightarrow{+7}$ 16 $\xrightarrow{+9}$ 25
III series : X $\xrightarrow{-3}$ U $\xrightarrow{-3}$ R $\xrightarrow{-3}$ O

183. (d)

184. (a) r q p x x / r q p x x / r q p x x / r q p x x.

185. (a) The pattern is as follows :
3, 17, 45, 87, 143
+14, +28, +42, +56

186. (a) The pattern is as follows :
A $\xrightarrow{+2}$ C $\xrightarrow{+2}$ E $\xrightarrow{+2}$ G
Z $\xrightarrow{-2}$ X $\xrightarrow{-2}$ V $\xrightarrow{-2}$ T
W $\xrightarrow{-2}$ U $\xrightarrow{-2}$ S $\xrightarrow{-2}$ Q
D $\xrightarrow{+2}$ F $\xrightarrow{+2}$ H $\xrightarrow{+2}$ J

187. (a) B C F, C D G, D E H, E F I
+1, +1, +1

188. (d) 2, 5, 12, 27, 58
+3, +7, +15, +31
+4, +8, +16

189. (a) Q, P, O, N, M
−1, −1, −1, −1

190. (c) The pattern is as follow :
first number + second number = next number.
$6 + 9 = 15$
$9 + 15 = 24$
$15 + 24 = 39$
$24 + 39 = 63$
So, next number is $(39 + 63) = 102$

191. (c) The pattern is :
A G, L R, W C, H N, S Y
+6 +5 +6 +5 +6 +5 +6 +5 +6
So, next missing term is 'SY'.

192. (d) The pattern is :
13, 16, 11, 18, 9, 20, 7
+2, +2
−2, −2, −2
So, next missing number is 7.

193. (b) B T, D R, F P, H N
+2, +2, +2
−2, −2, −2

194. (a) 3, 8, 5, 27, 8, 64, 12, 125, 17, 216
+2, +3, +4, +5
$(2)^3$, $(3)^3$, $(4)^3$, $(5)^3$, $(6)^3$

195. (a) The next term is quintuple because quintuple means five times.

196. (a) The common difference between first and second letter is one letter according to alphabetical sequence.
So, answer will be IK.

197. (a) TU $\xrightarrow{+2}$ WX $\xrightarrow{+3}$ AB $\xrightarrow{+4}$ FG

198. (c) 30, 60, 360, 3600, 50400
×2, ×6, ×10, ×14
+4, +4, +4

199. (a) The pattern is as follows :
5, 7, 11, 17, 25, 35
+2, +4, +6, +8, +10
So, the next number is = 35.

200. (c) The pattern is as follows :
B K S D J T F I U H H V J G W
−1, −1, −1, −1
+2, +2, +2, +2, +2
+1, +1, +1, +1
So, The next term is = JGW.

201. (a) The pattern is as follows ;
A B D G K
+1, +2, +3, +4
So, the missing term is K.

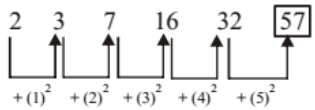
202. (b) The pattern is as follows :
V W R T U P R S N P Q L
−2, −2, −2
−2, −2, −2
−2, −2, −2
So, the missing term is PQL.

203. (c) The pattern is as follows :
$3 \times 3 + 1 = 10$; $10 \times 3 + 1 = 31$; $31 \times 3 + 1 = 94$
$94 \times 3 + 1 = 283$
So, the missing number is 283.

204. (a) The pattern is as follows :
$4 \times 3 = 12$; $12 \times 4 = 48$; $48 \times 12 = 576$
$576 \times 48 = 27648$
So, the missing number is 27648.

205. (a) The pattern is :
$2 \times 2 + 1 = 5$; $5 \times 2 + 1 = 11$; $11 \times 2 + 1 = 23$
$23 \times 2 + 1 = \boxed{47}$
So, The missing number is = 47.

206. (a) The pattern is :

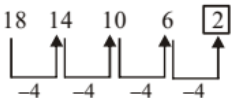


So, The missing number is = 57.

207. (c) The pattern is :

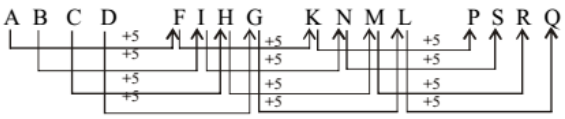
So, The missing number is = 23.

208. (a) The pattern is :



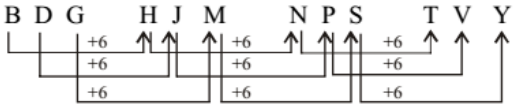
So, The missing number is = 2

209. (a) The pattern is :



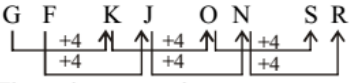
So, The missing number is = PSRQ.

210. (a) The pattern is :

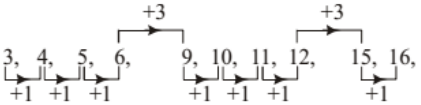


So, The missing number is = TVY

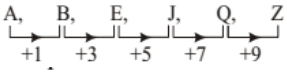
211. (b) The pattern is :

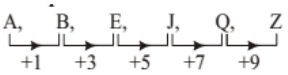


212. (a) The series pattern is:

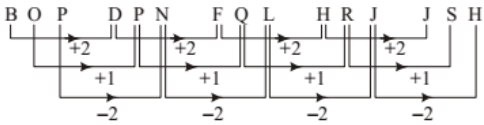


213. (d) The series pattern is:

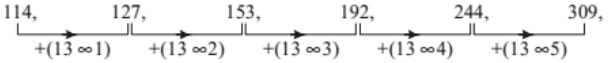




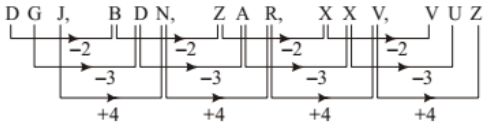
214. (a)



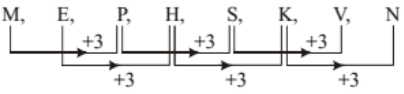
215. (a) The series is like this:



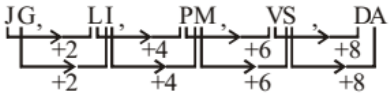
216. (a) The senies is like this:



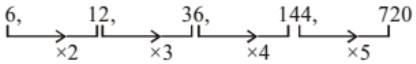
217. (b)



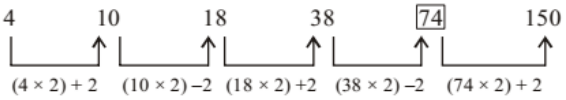
218. (a)



219. (a)

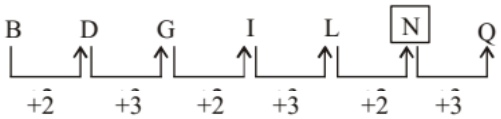


220. (d) The pattern is :

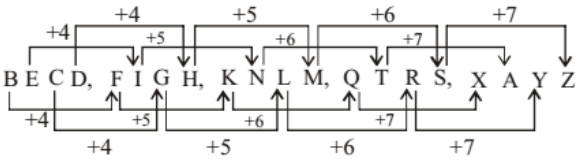


So, 74 is correct answer.

221. (b) The pattern is :



222. (d) The pattern is



223. (c) The pattern is : $3 + 4 = 7, 4 + 7 = 11, 7 + 11 = 18$
$\therefore \quad 11 + 18 = 29$

224. (a) The pattern is :
$0 + (1)^2 = 1$; $1 + (2)^2 = 5$; $5 + (3)^2 = 14$
$14 + (4)^2 = 30$; $30 + (5)^2 = 55$

225. (a) The sequence is:
f g g f / g f f g / f g g f / g f f g / f
So, option (a) is correct.

226. (d) The pattern is :
$0 + 2 + 3 = 5$; $2 + 3 + 5 = 10$; $3 + 5 + 10 = 18$
$5 + 10 + 18 = 33$; $10 + 18 + 33 = 61$; $18 + 33 + 61 = 112$
$33 + 61 + 112 = \boxed{206}$

227. (c) The pattern is :
$(1)^3 - 1 = 0, (5)^3 - 1 = 124, (11)^3 - 1 = 1330$
$(17)^3 - 1 = 4912$

228. (b) The pattern is :
$(17)^3 - 1 = 4912$

228. (b) The pattern is :

$$L \xrightarrow{-1} K \xrightarrow{-2} I \xrightarrow{-3} F \xrightarrow{-4} B \xrightarrow{-5} W \xrightarrow{-6} Q$$

229. (c) The pattern is :

$$A \xrightarrow{+1} B \xrightarrow{+1} C \xrightarrow{+1} D \xrightarrow{+1} E$$

$$K \xrightarrow{+1} L \xrightarrow{+1} M \xrightarrow{+1} \boxed{N} \xrightarrow{+1} O$$

$$T \xrightarrow{+1} U \xrightarrow{+1} V \xrightarrow{+1} W \xrightarrow{+1} X$$

230. (b) The pattern is :

$Z \xrightarrow{-2} X \xrightarrow{-2} V \xrightarrow{-2} T \xrightarrow{-2} R$

$C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I \xrightarrow{+2} K$

$C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I \xrightarrow{+2} K$

231. (c) The pattern is

12 24 96 576 **4608**

×2 ×4 ×6 ×8

232. (c) The pattern is :

$35 + 5 = 40$; $40 + 10 = 50$; $50 + 20 = 70$

$70 + 40 = 110$; $110 + 80 =$ **190**

233. (a) The pattern is :

6 9 15 27 51 **99**

+3 +6 +12 +24 +48

+3 +6 +12 +24

3 6 12

3 6

3

234. (b) The pattern is :

$B \xrightarrow{+2} D \xrightarrow{+2} F \xrightarrow{+2} H \xrightarrow{+2} J$

$P \longrightarrow P \longrightarrow P \longrightarrow P \longrightarrow P$

$C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I \xrightarrow{+2} K$

$R \xrightarrow{+1} S \xrightarrow{+1} T \xrightarrow{+1} U \xrightarrow{+1} V$

235. (b) The pattern is :

3×3+3 12×3+3 39×3+3

2 3 9 12 30 39 93 120

2×3+3 9×3+3 30×3+3

236. (a)

237. (c) The pattern is :

$M \xrightarrow{+3} P \xrightarrow{+3} S \xrightarrow{+3} V$

$A \xrightarrow{+3} D \xrightarrow{+3} G \xrightarrow{+3} J$

$C \xrightarrow{+3} F \xrightarrow{+3} I \xrightarrow{+3} L$

238. (a) The pattern is :

k k l m m / l l m k k / m m k l l / k k l m m

239. (d) The pattern is :

17 21 30 46 71 107

$+(2)^2$ $+(3)^2$ $+(4)^2$ $+(5)^2$ $+(6)^2$

240. (c)

$C \xrightarrow{+5} H \xrightarrow{+5} M \xrightarrow{+5} R \xrightarrow{+5}$ W

$X \xrightarrow{-3} U \xrightarrow{-3} R \xrightarrow{-3} O \xrightarrow{-3}$ L

$B \xrightarrow{+7} I \xrightarrow{+7} P \xrightarrow{+7} W \xrightarrow{+7}$ D

241. (a) The series is as –

16 20 29 45 70 **106**

+4 +9 +16 +25 +36

$(2)^2$ $(3)^2$ $(4)^2$ $(5)^2$ $(6)^2$

242. (b) The pattern of the series is as –

31 44 58 73 89 **106**

+13 +14 +15 +16 +17

243. (b) The pattern of the series is as —

A R C U E X G A **I D**

+2 +2 +2 +2

+3 +3 +3 +3

244. (c) The series pattern is :

7 16 34 70 **142** **286**

×2 + 2 ×2 + 2 ×2 + 2 ×2 + 2 ×2 + 2

So, the missing no's are 142, 286.

245. (b) The series pattern is :

−2 −2 −2 −2

A Z C X E V **G T** I R

+2 +2 +2 +2

246. (b) **a a** b c **c** d/a a b c **c** **d**/a **a** **b** c c d

247. (c)

U T M D

−4 +4 −4 +4

Q X I H

−4 +4 −4 +4

M B E L

−4 +4 −4 +4

I F A P

−4 +4 −4 +4

E J W T

248. (b)

27 30 37 50 **69** 98

3 7 13 19 29

249. (a)

Q K A D P R | Q K A D P R | Q K A D P R | Q K A D P R

250. (c) Pattern of the series,

$25 \times 1 + 1 = 26$

$26 \times 2 + 1 = 53$

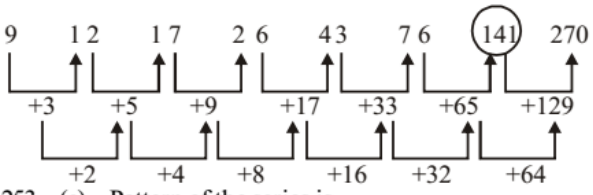
$53 \times 3 + 1 = 160$

$160 \times 4 + 1 = 641$

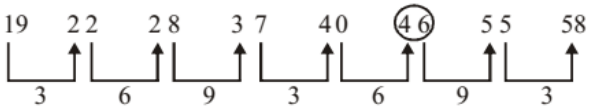
$641 \times 5 + 1 = 3206 = ?$

251. (b) c k t g k | c k t g k | c k t g k | c k t g k

252. (a) Pattern of the series is,



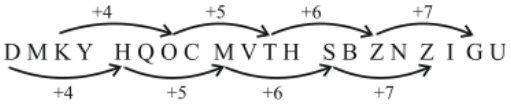
253. (c) Pattern of the series is,



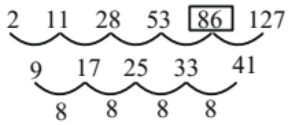
254. (c) C + X = 27 and F + U = 27
B + Y = 27 and E + V = 27
D + W = 27 and G + T = 27
Similarly,
I + R = 27

J + Q = 27

255. (a)



256. (a)



257. (c)

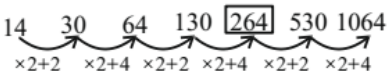
Code for Months		Code for days	
Jan 0	July 6	Sunday	0
feb 3	Aug 2	Monday	1
Mar 3	Sept 5	Tuesday	2
Apr 6	Oct 0	Wednesday	3
May 1	Nov 3	Thursday	4
June 4	Dec 5	Friday	5
		Saturday	6

2000 – 2099 = 6

$$\Rightarrow \frac{19+3+11+\frac{11}{4}+6}{7}$$

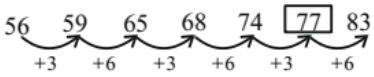
$$\Rightarrow \frac{33+2+6}{7} = \frac{41}{7} = 6 = \text{Saturday}$$

258. (c)

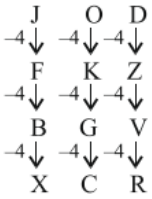


259. (d)

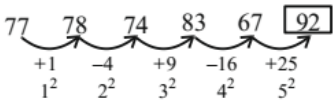
260. (b)



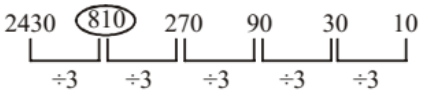
261. (d)



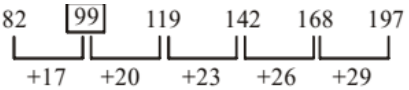
262. (c)



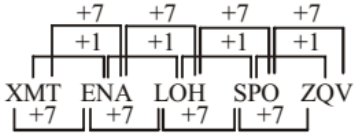
263. (c)



264. (a)

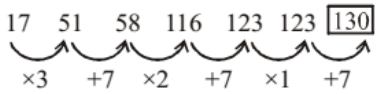


265. (d) ZQV

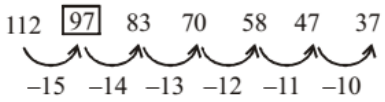


266. (a) HBS, GDP, FFM, EHJ, DJG

267. (b)



268. (b)



269. (d) There are two series in the given series.
AE, EI, IO, OU (vowels)