

7. Series, Analogies, Odd Man Out, Coding - Decoding and Symbols & Notations

Directions for questions 1 to 10: Complete the following series.

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| 1) 1, 2, 6, 15, 31, 56, ____ | a. 150 | b. 141 | *c. 92 | d. 128 |
| 2) 725, 756, 785, 808, 827, 844, ____ | a. 859 | b. 831 | *c. 857 | d. 862 |
| 3) 4, 11, 25, 53, 109, 221, ____ | a. 442 | b. 464 | *c. 445 | d. 542 |
| 4) 3, 11, 19, 59, 115, 347, ____ | a. 1043 | *b. 691 | c. 912 | d. 721 |
| 5) 7, 11, 18, 29, 47, 76, 123, 199, ____ | *a. 322 | b. 234 | c. 276 | d. 258 |
| 6) 121, 1000, 81, 512, 49, ____ | a. 36 | b. 84 | c. 125 | *d. 216 |
| 7) ____, 10111, 10011, 10001, 1101. | a. 11010 | b. 11011 | c. 11111 | *d. 11101 |
| 8) 49, 1625, 3649, 6481, ____ | *a. 100121 | b. 100144 | c. 81100 | d. 121169 |
| 9) 3, 4, 10, 33, 136, 685, ____ | a. 4110 | *b. 4116 | c. 4216 | d. 4328 |
| 10) 16, 23, 28, 38, 49, 62, ____ | *a. 70 | b. 69 | c. 72 | d. 82 |

Directions for questions 11 to 15: Find the wrong number in the series.

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| 11) 1, 1, 4, 36, 560, 14400, 518400. | a. 518400 | b. 4 | c. 36 | *d. 560 |
| 12) 9000, 1500, 360, 72, 14.4, 2.88. | a. 9000 | b. 360 | c. 2.88 | *d. 1500 |
| 13) 4, 15, 53, 368, 3308, 36383. | a. 53 | *b. 15 | c. 36383 | d. 4 |
| 14) 500, 1800, 100, 500, 20, 50, 4. | *a. 500 | b. 100 | c. 50 | d. 20 |
| 15) 15972, 15629, 15840, 15720, 15784, 15757. | *a. 15840 | b. 15972 | c. 15720 | d. 15757 |

Directions for questions 16 to 22: Complete the following series.

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| 16) BV, CU, ES, HP, LL, QG, ____ | a. VB | b. WB | *c. WA | d. VC |
| 17) BD, EJ, KV, WT, UP, ____ | a. QP | *b. QH | c. QL | d. RJ |
| 18) PLD, QJG, RHJ, SFM, TDP, ____ | a. UCR | b. UDT | c. UBR | *d. UBS |
| 19) HVA, JSE, LPI, NMM, ____ | *a. PJQ | b. OKR | c. PLQ | d. QLP |
| 20) 1BE0, 2DG8, 5FI4, ____ | a. 8HM1 | *b. 8HK8 | c. 7HK2 | d. 3JK4 |
| 21) BRDY, CPGU, DNJQ, ELMM, ____ | a. FKQJ | b. FHRI | *c. FJPI | d. FRJH |
| 22) 2GB7, 25JY10, 22MV13, ____ | *a. 19PS16 | b. 17QQ17 | c. 19QS17 | d. 19SQ16 |

Directions for 23 to 25: If STROKE is 346152, TRAIN is 78392, KITE is 6285 and TEST is 1226, then

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| 23) What can be the code for the word SNAKE? | *a. 17956 | b. 17562 | c. 19562 | d. cannot be determined. |
| 24) What is the code for the word ROSE? | a. 3426 | *b. 3416 | c. 3417 | d. 2416. |
| 25) What is the code for the word INK? | a. 895 | b. 875 | c. 879 | *d. cannot be determined |

Directions for questions 26 to 30: Find the missing term.

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| 26) 24 : 576 :: 32 : ____ | a. 961 | b. 1000 | c. 1225 | *d. 1024 | 27) 4 : 27 :: 25 : ____ | a. 64 | b. 36 | *c. 343 | d. 256 |
| 28) 13 : 42 :: 65 : ____ | *a. 198 | b. 203 | c. 179 | d. 217 | 29) BRS : YIH :: TAP : ____ | a. GNL | *b. GZK | c. GZR | d. HRP |
| 30) BILK : DLPP :: HMT0 : ____ | a. JOWQ | b. JRWS | c. JPVS | *d. JPXT | | | | | |

Directions for questions 31 to 35: Find the odd man out.

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| 31) a. 3527 | b. 2357 | c. 5723 | d. 3275 | *e. 7532 |
| 32) a. 30 | b. 12 | c. 20 | d. 42 | *e. 52 |
| 33) a. 167 | b. 223 | c. 439 | *d. 230 | e. 782 |
| 34) a. 130 | b. 350 | c. 222 | d. 738 | *e. 504 |
| 35) *a. KLMN | b. LMNO | c. MNOP | d. NOPQ | e. OPQR |

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Directions for questions 36 to 50: Select the correct alternative from the given choices.

- 36) In the following sequence of digits, in how many instances is a digit either immediately preceded by a digit which is a multiple of 4 or immediately followed by a digit which is multiple of 3? 647364598557238125. a. 4 b. 5 *c. 6 d. 7 e. 8
- 37) Pq_s_rsp_s_qsp__p_rs. a. qrpqr b. rrqqspr *c. rqrprq d. rpqrqrq.
- 38) In a certain language of the word UMPIRE is coded as 63, COACH is coded as 52, how is the word MANAGER coded in that language? a. 59 b. 64 c. 49 *d. 94
- 39) In the word INADVERTENTLY, how many letters remains in the same position after arranging the letters in the alphabetical order? a. 0 b. 1 *c. 2 d. 3 e. 4
- 40) How many such pairs of letters are there in the word PREPOSITION which has same number of letters between them as there are in the English alphabet? a. 3 b. 5 c. 4 d. 7 *e. 8
- 41) How many perfect squares can be formed by using the first, the third and the seventh digit of the following number (using all the three digits together)? 97684215 a. Nil b. One c. Two *d. Three e. More
- 42) If CENTURY is coded as AGLVSTW, then what is the code for SACHIN? a. QCAFKL b. UCEFGl *c. QCAJGP d. UCAJGP
- 43) If the code for AMBITION is GSHOZOUT, then which of the following is coded as VXOTZUAZ? *a. PRINTOUT b. PRINTING c. PREDATOR d. PROFOUND e. NONE
- 44) If PRESIDENT is coded as KIVHRWVMG, then MAHENDAR is coded as a. NZTMWZI b. NZTUMWZI *c. NZSVMWZI d. NZSUMWZI
- 45) In a code language, if INSPIRATION is coded as AIIINNOPRST, then CONFIDENCE is coded as a. EEIOCCDFNN b. CCDDEEINNO *c. CCDEEFINNO d. ECICONFDNE e. NONE
- 46) In a code language, if pen is called pencil, pencil is called eraser, eraser is called paper, paper is called book, book is called table, table is called chair and chair is called desk, then on which if the following do we sit? a. Table *b. Desk c. Paper d. Book e. Pencil
- 47) In a code language, if shirt means shoe, shoe means wallet, wallet means spectacle, spectacle means fan, fan means cabin and cabin means card, then which of the following do we use when we want some air? a. Wallets *b. Spectacles c. Fans d. Cabins e. Shirt
- 48) If addition means subtraction, subtraction means multiplication, multiplication means division and division means addition, then find the value of the expression $25 + 32 \times \frac{2}{3} - 8$. a. 64 b. 96 *c. 33 d. 22 e. 44
- 49) If a means subtraction, b means addition, c means division and d means multiplication, then find the value of the expression $4d((5b4)d(6c2)) \div 12d8$. a. 768 b. 120 c. 108 d. 216 *e. 12
- 50) The rank of Raja in his class is twenty one from the top and thirty six from the bottom. What is the total number of students in his class? a. 54 b. 55 *c. 56 d. 57 e. None of these

Directions for questions 51 to 55: P \$ Q means P is not less than Q. P @ Q means P is not greater than Q. P # Q means P is neither greater than nor equal to Q. P & Q means P is neither less than nor equal to Q. P % Q means P is neither greater than nor less than Q. Mark (a) if only conclusion (I) follows. (b) if only conclusion (II) follows. (c) if both conclusions (I) and (II) follow. (d) if neither (I) nor (II) follows.

- 51) A \$ B, C % D, B & C. (I) D # B (II) A & D. 52) X @ Y, Z & W, W % X. (I) Y @ Z (II) Y \$ W. 53) G \$ H, H # I, J & I. (I) G @ I (II) G @ J.
54) P & Q, R @ S, Q \$ R. (I) R # P (II) P % S. 55) A # B, B & D, C @ D. (I) A @ D (II) C # B.

Directions for questions 56 to 60: Study the following arrangement. **H E £ 4 λ I A 6 G J \$ N 2 C B @ * © F 7 Δ M P K 1 Ω 5 D L.**

- 56) How many such digits are there in the above arrangement, each of which is either immediately preceded by a symbol or immediately followed by a letter? a. Nil b. One c. Two d. Three *e. None of these
- 57) Four of the following five are alike in a certain way based on their positions in the above arrangement and hence form a group. Which one does not belong to the group? *a. 4 λ 1. b. BC@ c. \$J7 d. £ED e. AIK
- 58) How many such symbols are there in the above arrangement, each of which is either immediately followed by a letter or immediately preceded by a digit but not both? a. One b. Two *c. Three d. Four e. More than Four
- 59) How many such letters are there in the above arrangement, each of which is either immediately followed by a symbol or immediately preceded by a digit but not both? a. One b. Two c. Four *d. Six e. More than six
- 60) As per the positions of the elements in the above arrangement, A\$1£ is to NNDJ and 46K2 is to GG57 in the same way as I C λ J is to a. \$B6* b. B6*\$ *c. \$B6* d. JB2@ e. \$BAF