

5. CODING AND DECODING

In these questions, a particular code is given and on the basis of this given code, we have to find out how another word (in English language) can be coded. The correct code for the given word has to be selected from the answer choices on the basis of the code given in the question.

The questions can be classified into two categories:

- 1. Replacement 2. Re-arrangement**

Examples:

1. In a certain code language, if the word 'PARTNER' is coded as OZQSMDQ, then what is the code for the word 'BUSINESS' in that language?

Sol. This is a Replacement question.

Word : P A R T N E R

Logic : -1 -1 -1 -1 -1 -1 -1

Code : O Z Q S M D Q

Similarly the code for BUSINESS is

Word : B U S I N E S S

Logic : -1 -1 -1 -1 -1 -1 -1

Code : A T R H M D R R

Ans: ATRHMDRR

2. In a certain code language, if the word 'REASONING' is coded as TGCUQPKPI, then how is the word 'NUMARACY' coded in that language?

Sol. This is a Replacement question.

Word : R E A S O N I N G

Logic : +2 +2 +2 +2 +2 +2 +2 +2

Code : T G C U Q P K P I

Similarly, the code for NUMARACY is

Word : N U M A R A C Y

Logic : +2 +2 +2 +2 +2 +2 +2

Code: P W O C T C E A

ANS: PWOCTCEA

3. In a certain code language, if the word 'SPHERE' is coded as EREHPS, then how is the word 'CIRCLE' coded in that language?

Sol. This is a Re-arrangement question.

Word: S P H E R E

Logic: The letters in the given word are reversed.

Code: E R E H P S

Similarly, the code for CIRCLE, is

Word: C I R C L E

Logic: The letters in the given word are reversed.

Code: E L C R I C

4. In a certain code language, if the word 'REJECTION' is coded as SGMIHZPWW, then how is the word 'APPROVAL' coded in that language?

Sol. This is a Replacement question.

Word: R E J E C T I O N

Logic: +1 +2 +3 +4 +5 +6 +7 +8 +9

Code: S G M I H Z P W W

Similarly, the code for MECHANIC is

Word: A P P R O V A L

Logic: +1 +2 +3 +4 +5 +6 +7 +8

Code: B R S V T B H T

BRSVTBHT

5. In a certain code language, if the word 'PLAYER' is coded as AELPRY, then how is the word 'ENGINEER' coded?

Sol. This is a Re-arrangement question.

Word: P L A Y E R

Logic: The letters in the word are arranged in the increasing order of their value as in the alphabet.

Code: A E L P R Y

Similarly, the code for ENGINEER is EEEGINNR.

6. In a certain code language, if the number 1 is assigned to all the letters in odd numbered places in the alphabet and the remaining letters are assigned the number 2, then what is the code for the word 'POLITICIAN'?

Sol. The code for the word POLITICIAN is 2121211112.

7. If BUS = 84, TRAIN = 124, then RIKSHAW = ?

Sol: B + U + S = 42, $42 \times 2 = 84$

T + R + A + I + N = 62, $62 \times 2 = 124$

So, R + I + K + S + H + A + W = 89, $89 \times 2 = 178$

8. In a certain code if white is called as black, black as yellow, yellow as blue, blue as red, red as green, green as orange, then what is the colour of milk in that language?

Sol. The colour of milk is white and in this code white is called Black. Hence, milk is Black in colour in that language.

Exercise

Directions for questions 1 to 30: Select the correct alternative from the given choices.

1. In a certain code language, if the word DECODING is coded as GNIDOCED, then how is the word LANGUAGE coded in that language?

(1) LNAGUAGE (2) NANGUAE

(3) EGAUGNAL (4) GEAUGNAL

2. In a certain code language, if the word ENVIRONMENT is coded as EVRNETNIOMN, then how is the word HAPPINESS coded in that language?
 (1) HPIESPANS (2) HPIESAPNS
 (3) HPEISAPNS (4) HPISEAPNS
3. In a certain code language, if the word CIRCUMFERENCE is coded as IRUFNECCMERE, then how is the word SENTIMENT coded in that language?
 (1) ENIESTNTM (2) ENIESMTNT
 (3) ENIESTMNT (4) ENEISTMNT
4. In a certain code language, if the word REGISTRATION is coded as TSIGERNOITAR, then how is the word RESERVATIONS coded in that language?
 (1) VRESERSNOITA (2) ERESRSNOITVA
 (3) VRESERNOITAS (4) VRESERSNIOTA
5. In a certain code language, if the word COMPUTER is coded as OCPMTURE, then how is the word HYGROMETER coded in that language?
 (1) YHRGMOTREE (2) YHRGMTOERE
 (3) YHRGMOTERE (4) YHRMGOTERE
6. In a certain code language, if the word CUSTOMER is coded as RCEUMSOT, then how is the word BUILDING coded in that language?
 (1) BGUNIILD (2) GBNUIIDL
 (3) GBNUIILD (4) GBNIUIDL
7. In a certain code language, if the word DESKTOP is coded as EFTLUPQ, then how is the word COMPUTER coded in that language?
 (1) DPNQWUFS (2) DPNQVUF
 (3) DPNQVUFS (4) DNPQUVFS
8. In a certain code language, if the word STRUCTURE is coded as TVUYHZBNZ, then how is the word TABLE coded in that language?
 (1) UCEPJ (2) UCEOJ
 (3) UCEQJ (4) UCEPK
9. In a certain code language, if the word MAJESTY is coded as NZKDTSZ, then which word is coded as GNVMEDS in that language?
 (1) FLOWERS (2) FLYOVER
 (3) FOUNDER (4) FLIPPER
10. In a certain code language if the word BOTTLE is coded as DRYAWR, then what is coded as MISCHIEF?
 (1) KFNVWVNM (2) OLXYJSVY
 (3) OLXIRVWY (4) KFNWVWNM
11. In a certain code language, if the word MINUTE is coded as NMWKS0, then what is the code for the word SECOND?
 (1) TILFNM (2) TLIEMN
 (3) TJLEMN (4) TILEMN
12. In a certain code language if the word CHAIR is coded as FPBRJ, then how is the word PENCIL coded in that language?
 (1) FJCFRX (2) EPFBRF
 (3) FJBFRX (4) DJBFRW
13. In a certain code language, if MOUSE is coded as NMXOJ, then what is coded as NMFEQY?
 (1) MOBILE (2) MOCILF
 (3) MNBHLE (4) MOCILE
14. In a certain code language, if the word SERVICE is coded as FDJWSFT, then how is the word FURNISH coded in that language?
 (1) ITJOSVG (2) ITJORWG
 (3) ITKNSVG (4) ITHNRVG
15. In a certain code language if the word CYCLE is coded as XBXOV, then how is the word SHIRT coded in that language?
 (1) HSRIG (2) HSRIT
 (3) HSIRG (4) HISGR
16. In a certain code language, if the word CENTRAL is coded as FBQQUXO, then how is the word FLOWER coded in that language?
 (1) IOLZBU (2) IIRTHX
 (3) IIRTHO (4) IILZHV
17. In a certain code language, if the word MATERIALS is coded as DSZLRTMBJ, then how is the word REASONING coded in that language?
 (1) RZDQOHOJO (2) PFBTOOJ0H
 (3) HOJOOQDZR (4) RZDQOOJ0H
18. In a certain code language, if the word ADMINISTRATIVE is coded as AADEIIIMNRSTTV, then how is the word ADVENTURE coded in that language?
 (1) AEUEDVNTR (2) ADEENRTUV
 (3) AEUEDNTVR (4) AEEUDNRTV
19. In a certain code language, if DIGITAL = 49 and BREAKING = 64, then MARVELLOUS =?
 (1) 81 (2) 75 (3) 90 (4) 100
20. In a certain code language, if CABLE = 50 and BEAUTY = 60, then COSMETIC =?
 (1) 70 (2) 80 (3) 90 (4) 100
21. In a certain code language, if INDIA = 37 and NEPAL = 48, then CHINA =?
 (1) 36 (2) 38 (3) 44 (4) 35

22. In a certain code language, if BUS = 126 and GIRL = 184, then TIGER =?
 (1) 285 (2) 295 (3) 280 (4) 265
23. In a certain code language, if RADIO = 74 and VISUAL = 48, then CINEMA =?
 (1) 54 (2) 45 (3) 64 (4) 34
24. In a certain code language, if GROUP = 82 and HURDLE = 74, then RAILWAY =?
 (1) 89 (2) 95 (3) 97 (4) 96

Directions for questions 25 to 29: These questions are based on the following data.

In a certain code language, if the word COMFORT is coded as FMZDDPN and the word TRAINERS is coded as NPBGBCJQ, then how the following words are coded in that language?

25. BOTTLE
 (1) DMNRXC (2) DMNRXD
 (3) DMMRXC (4) DNNRXC
26. HISTORY
 (1) FGLRDPX (2) PGLRDNW
 (3) FRQNMKW (4) PGLRDPX
27. ELEPHANT
 (1) JXJNPYBR (2) JJJNPBYR
 (3) JJJNPYBR (4) JXJPYRB
28. COMPUTER
 (1) FMZNPRJP (2) FMZNPRJP
 (3) ANKFSNCJ (4) FZMMPRPJ
29. PAPER
 (1) FYFCJ (2) NBNJP
 (3) FYEJP (4) FYFDK

Directions for questions 30 to 32: Select the correct alternative from the given choices.

30. In a certain code language, if Violet is called as Green, Green is called as Red, Red is called as Brown, Brown is called as Orange, Orange is called as Yellow, Yellow is called as Blue and Blue is called as Indigo, then what is the colour of sky in that language?
 (1) Red (2) Blue
 (3) Green (4) Indigo
31. In a certain code language, the letters in the English alphabet are coded as follows, based on their place values. Each letter with a multiple of 2 as place value are given 1 as code, and the ones with a multiple of 3 as place value are given 2 as code, in case of a clash, 1 prevails and the rest of the letters

- are given 3 as code. Then what is the code for the word EDUCATION?
 (1) 312231221 (2) 312131321
 (3) 312231211 (4) 312232121

32. In a certain code language, if each letter in the English alphabet, with an odd numbered value is given a code of 1 and each of the remaining letters is coded as 2, then what is the code for the word MECHANIZATION?
 (1) 1112121212212 (2) 1122121212212
 (3) 1112121212112 (4) 1121121212112

Directions for questions 33 to 37: For the following groups of letters given in Column I, the codes are given in Column II. Answer the following questions by finding the codes for the groups from the given columns.

- | Column I | Column II |
|------------------------------------|------------------|
| (1) lat cat bat dat | a b p d |
| (2) fat gat mat cat | t d s c |
| (3) rat bat gat tat | x p c w |
| (4) nat dat fat rat | b s x j |
33. What is the code for lat?
 (1) c (2) b (3) p (4) a
34. What is the code for tat?
 (1) w (2) x (3) p (4) c
35. What is the code for rat?
 (1) j (2) s (3) b (4) x
36. What is the code for nat?
 (1) x (2) s (3) j (4) b
37. What is the code for cat?
 (1) b (2) p (3) x (4) d

Directions for questions 38 to 42: For the words given in column I, the codes are given in Column II. Answer the following questions by finding the codes for the letters from the words and their codes given in the columns.

- | Column I | Column II |
|-------------|-----------|
| (1) AREJEND | @#96@0& |
| (2) COBBON | 615715 |
| (3) HOUSE | @*2&1 |
| (4) SUAAORJ | #*21	 |
| (5) DRUB | 5*0& |
38. What is the code for the word AROJECJ?
 (1) #&95@79 (2) #&@697&
 (3) #&19@79 (4) #&1@97&
39. What is the code for the word HORBONE?
 (1) @ (2) &176561
 (3) &1751@& (4) &1&516@

- | | | | |
|--|---|---|--|
| 40. | What is the code for the word EBAEROR?
(1) 5@95717
(3) #@5#919 | I am not the last
Ravan do not win
Last boy get the silver coin
Ravan is a boy | 3 7 6 π &
1 8 & %
9 π 6 θ @ ψ
9 5 8 * |
| 41. | What is the code for the word DEJHRONE?
(1) 0@9&726@
(3) 059&716@ | 48. What is the code for ‘fraud’?
(1) 7
(2) 1
(3) &
(4) 2 | |
| 42. | What is the code for the word COBAOUND?
(1) 715#1*60
(3) 915#1*70 | 49. What is the code for ‘bronze’?
(1) 4
(2) @
(3) 7
(4) ψ | |
| Directions for questions 43 to 47: For the following sentences given in column I, the codes are given in column II. Answer the following questions by finding the codes for the words from the given columns. | | | |
| Column I | Column II | | |
| Some people are not singer | byb cyc hyh tyt zyz | | |
| Great people are joker | tyt dyd fyf zyz | | |
| Ram is a magician | yny gyg ryr mym | | |
| Balu is a great singer | mym byb dyd nyn lyl | | |
| Magician make people joker | tyt gyg fyf sys | | |
| No professor is joker | xyx pyp fyf mym | | |
| 43. What is the code for the word ‘Balu’ in that language?
(1) byb
(3) lyl | (2) dyd
(4) nyn | 50. Which word is coded as θ ?
(1) boy
(2) get
(3) silver
(4) coin | |
| 51. What is the code for “Ravan is a fraud”?
(1) * 8 & 5
(2) 9 8 5 2 | (3) 5 * 8 2
(4) 5 4 9 2 | 52. What can be the code for “I get the bronze coin”?
(1) 7 4 @ % 6
(3) 7 4 5 % 6 | (2) 6 8 4 ψ %
(4) ψ 6 4 7 @ |
| Directions for questions 53 to 57: Given below are the codes for the digits/symbols. Study the conditions given below and answer the questions that follow. | | | |
| Digit /symbol : 6 2 @ * 3 \$ 1 # 7 8 4 % 5 £ 9 | | | |
| Letter codes : X J B P O A K N Y Q L S D M Z | | | |

Directions for questions 48 to 52: For the following sentences given in column f^1 , the codes are given in column f^1f^1 . Answer the following questions by finding the codes for the words from the given columns.

Column I	Column II
I do not fraud.	1 & 2 7
I get the bronze coin	4 @ 7 6 ψ

- | | | | |
|---|---------------|-------------|---------------------|
| I am not the last | 3 7 6 | π | & |
| Ravan do not win | 1 8 | & | % |
| Last boy get the silver coin | 9 | π | 6 θ @ ψ |
| Ravan is a boy | 9 5 8 | * | |
| 48. What is the code for ‘fraud’? | (1) 7 | (2) 1 | (3) & |
| | | | (4) 2 |
| 49. What is the code for ‘bronze’? | (1) 4 | (2) @ | (3) 7 |
| | | | (4) ψ |
| 50. Which word is coded as θ ? | (1) boy | (2) get | (3) silver |
| | | | (4) coin |
| 51. What is the code for “Ravan is a fraud”? | (1) * 8 & 5 | (2) 9 8 5 2 | (3) 5 * 8 2 |
| | | | (4) 5 4 9 2 |
| 52. What can be the code for “I get the bronze coin”? | (1) 7 4 @ % 6 | (2) 6 8 4 | ψ % |
| | | | (3) 7 4 5 % 6 |
| | | | (4) ψ 6 4 7 @ |

Directions for questions 53 to 57: Given below are the codes for the digits/symbols. Study the conditions given below and answer the questions that follow.

Digit /symbol : 6 2 @ * 3 \$ 1 # 7 8 4 % 5 £ 9
Letter codes : X J B P O A K N Y Q L S D M Z

Conditions:

- (1) If the 1st element in the group is a symbol and the last one is an odd digit, the code for both will be C.
 - (2) If the 1st element is an even digit and the last element is a symbol, then codes for each of them gets interchanged.
 - (3) If the 1st element is an odd digit and the last element is an even digit then the code for both will be E.
 - (4) If both the 1st and the last elements are symbols, then the code for both will be R.

What will be the code for the following groups of numbers and symbols?

56. 4 3 2 9 6 1 @
 (1) LOJZXKB
 (3) EOJZXKE
57. @ 3 7 * 9 6 £
 (1) MOYPZXB
 (3) EOYPZXE
- (2) COJZXKC
 (4) BOJZXKL
- (2) ROYPZXR
 (4) None of these
59. 0 & % 7 9 6 4
 (1) HEFBJGV
 (3) MGJBDEM
60. \$ 4 7 8 0 © 6
 (1) EKVABHQ
 (3) EHBAVKQ
61. 5 1 © 2 6 9 @
 (1) CRKLEFT
 (3) XRKLEFX
62. % 8 @ 5 2 1 *
 (1) ZACTLRZ
 (3) AJCTLNR
63. In a certain code language, if each letter in the English alphabet, which has prime number place value, is coded as 1 and each of the remaining letters are coded as 2, then what is the code for the word EXAMINATION?
 (1) 12212222112 (2) 12212222222
 (3) 12212222212 (4) 12122212222
64. In a certain code language, if the word MANAGEMENT is coded as DAEAGEDEEB, then how is the word DEPARTURE coded in that language?
 (1) DEGAIBCIE (2) DEFAICBIF
 (3) DEGAJBCIE (4) DEGAHBDHE
65. In a certain code language, if the word ELECTION is coded as DMCEQLKR, then how is the word ATTITUDE coded in that language?
 (1) BSVGWRHA (2) ZUKRQXIZ
 (3) ZURKQXZI (4) ZURKXQZI
58. 8 0 6 @ 4 9 7
 (1) MVECHFA (2) BFHCEVA
 (3) AVECHFB (4) XVECHFX

Coding & Decoding																									
1	3	6	2	11	4	16	3	21	4	26	4	31	1	36	3	41	2	46	4	51	3	56	4	61	1
2	2	7	3	12	3	17	1	22	2	27	3	32	3	37	4	42	1	47	3	52	4	57	2	62	3
3	3	8	1	13	4	18	2	23	1	28	2	33	4	38	3	43	3	48	4	53	4	58	2	63	2
4	1	9	3	14	1	19	4	24	4	29	1	34	1	39	4	44	4	49	1	54	4	59	4	64	1
5	3	10	1	15	1	20	2	25	1	30	4	35	4	40	2	45	3	50	3	55	3	60	4	65	3