

CODING and DECODING

Coding and Decoding is the method used for transmitting a message from sender to receiver that no third party can understand it. Coding and Decoding can be done in two ways:

- (1) Letter Coding
- (2) Number Coding

LETTER CODING

Some Important methods used in Letter Coding

Method 1: Moving a letter forward

If the word **NELLORE** is coded as **OFMMPSF**, then coded word for **HYDERABAD** is

Answer: IZEFSBCBE

Explanation: Each letter is moved one step forward in the word-**NELLORE**, you can obtain the corresponding word- **OFMMPSF** as **N -> O, E -> F, L -> M, L -> M, O -> P, R -> S** and **E -> F**. Similarly, **HYDERABAD** can be coded as **IZEFSBCBE**.

Method 2: Moving a letter backward

If the word **CHAIR** is coded as **BGZHQ**, then coded word for **BENCH** is

Answer: ADMBG

Explanation: Each letter is moved one step backward in the word- **CHAIR**, you can obtain the corresponding word- **BGZHQ** as **B -> A, E -> D, N -> M, C -> B** and **H -> G**. Similarly,

BENCH can be coded as **ADMBG**

Method 3: Reversing the word

If the word **MADAM** is coded as **MADAM**, then coded word for **LEVEL** is

Answer: LEVEL

Explanation: Reverse order for **MADAM** is **MADAM**. Similarly for **LEVEL**, it is **LEVEL**.

Method 4: Reversing the word and moving one step forward

If the word **INTERNET** is coded as **UFOSFUOJ**, then coded word for **MODEM** is

Answer: NFEPN

Explanation: Given word **INTERNET** should be written in reverse order first i.e. **TENRETNI** and then each letter should be moved one step forward i.e. **T -> U, E -> F . . . N -> O** and **I -> J** and finally it becomes as **UFOSFUOJ**. Similarly **MODEM** first appears as **MEDOM** and then becomes as **NFEPN**.

Method 5: Reversing the word and moving one step backward

If the word **PERMUTATIONS** is coded as **RMNHSZSTLQDO**, then coded word for **COMBINATIONS** is

Answer: RMNHSZMHALNB

Explanation: Given word **PERMUTATIONS** should be written in reverse order first i.e., **SNOITATUMREP** and then each letter should be moved one step backward i.e. **S -> R, N -> M . . . E -> D** and **P -> O** and finally it becomes as **RMNHSZSTLQDO**. Similarly **COMBINATIONS** first appears as **SNOITANIBMOC** and then becomes as **RMNHSZMHALNB**.

Method 6: Reversing all letters except first and last

If the word **PROCESSOR** is coded as **POSSECORR**, then coded word for **KEYBOARD** is

Answer: KRAOBYED

Explanation: In the given word, first and last letters will remain same and remaining letters are written in reverse order. Then **PROCESSOR -> POSSECORR**. Then **KEYBOARD** becomes **KRAOBYED**

Method 7: Moving odd letters a step forward, without any change in even letters

If the word **POTATO** is coded as **QOUAUO**, then coded word for **BRINJAL** is

Answer: CRJNKAM

Explanation: In the given word **POTATO**, odd letters are moved a step forward while the even letters remains same i.e. **P -> Q, T -> U** and **T -> U**, the new word becomes as **QOUAUO**. Similarly **BRINJAL** becomes as **CRJNKAM**

Method 8: Moving even letters a step forward, without any change in odd letters

If the word **CHEMICAL** is coded as **CIENIDAM**, then coded word for **MEDICAL** is

Answer: MFDJCBL

Explanation: In the given word **CHEMICAL**, even letters are moved a step forward while the odd letters remains same i.e. **H->I, M->N, C->D** and **L->M**, the new word becomes as **CIENIDAM**.

Similarly **MEDICAL** becomes as **MFDJCBL**.

Method 9: Moving even letters a step forward and odd numbers a step backward

If the word **QUESTION** is coded as **PVDTSJNO**, then coded word for **ANSWER** is

Answer: ZORXDS

Explanation: In the given word **QUESTION**, if **even** letters are moved one step forward (**U->V, S->T, I->J** and **N->O**) and **odd** letters moved one step backward (**Q->P, E->D, T->S** and **O->N**), then the word **QUESTION** becomes as **PVDTSJNO**. Similarly, **ANSWER** becomes as **ZORXDS**.

Method 10: Moving odd letters a step forward and even numbers a step backward

If the word **PENCIL** is coded as **QDOBJK**, then coded word for **ERASER** is

Answer: FQBRFQ

Explanation: In the given word **PENCIL**, if **odd** letters are moved one step forward (**P->Q, N->O** and **I->J**) and **even** letters moved one step backward (**E->D, C->B** and **L->K**), then the word **PENCIL** becomes as **QDOBJK**. Similarly, **ERASER** becomes as **FQBRFQ**.

1. In a certain code, MONKEY is written as XDJMNL. How is TIGER written in that code?
 - a. QDFHS
 - b. SDFHS
 - c. SHFDQ
 - d. UJHFS
 - e. None of these
2. If in a code language, COULD is written as BNTKC and MARGIN is written as LZQFHM, how will MOULDING be written in that code?
 - a. CHMFINTK
 - b. LNKTCHEMF
 - c. LNTKCHMF
 - d. NITKHCMF
 - e. None of these
3. If in a certain language FASHION is coded as FOIHSAN, how is PROBLEM coded in that code?
 - a. PELBROM
 - b. PRBOELM
 - c. PELBORM
 - d. RPBOELM
 - e. ROBLEMP
4. If FRAGRANCE is written as SBHSBODFG, how can IMPOSING be written?
 - a. NQTPJOHJ
 - b. NQPTJHOJ
 - c. NQPTJOHI
 - d. NQPTJOHJ
 - e. None of these
5. If FRIEND is coded as HUMJTK, how is CANDLE written in that code?
 - a. EDRIRL
 - b. DCQHQQ
 - c. DEQJQM
 - d. FYOBQC

6. If in a certain language, 943 is coded as BED and 12448 is coded as SWEET, how is 492311 coded in that language?
 - a. EDSWBS
 - b. TSWBDD
 - c. DSWTEE
 - d. EBDWE
 - e. EBWDSS
7. If white is called blue, blue is called red, red is called yellow, yellow is called green, green is called black, black is called violet and violet is called orange, what would be the colour of human blood?
 - a. Red
 - b. Green
 - c. Yellow
 - d. Violet
 - e. Orange
8. If lead is called stick, stick is called nib, nib is called needle, needle is called rope and rope is called thread, what will be fitted in a pen to write with it?
 - a. Stick
 - b. Lead
 - c. Needle
 - d. Nib
 - e. Thread
9. In a certain code language, 'col tip mot' means 'singing is appreciable'; 'mot baj min' means 'dancing is good' and 'tip nopbaj' means 'singing and dancing', which of the following means 'good' in that code language?
 - a. Not
 - b. Min
 - c. Baj
 - d. Can't be determined
 - e. None of these
10. If HEATER is written as KBDQHO, how will you encode COOLER?
 - a. ALRIHV
 - b. FLRIHO
 - c. FLIRHO
 - d. FRLIHO
 - e. None of these
11. If CONTRIBUTE is written as ETBUIRNTOC, which letter will be in the sixth place when counted from the left if POPULARISE is written in that code?
 - a. L
 - b. A
 - c. I
 - d. R
12. If PALAM could be given the code number 43, what code number can be given to SANTACRUZ?
 - a. 75
 - b. 85
 - c. 120
 - d. 123
13. If Z = 52 and ACT = 48, then BAT will be equal to
 - a. 39
 - b. 41
 - c. 44
 - d. 46
14. If REASON is coded as 5 and BELIEVED as 7, what is the code number for GOVERNMENT?
 - a. 6
 - b. 8
 - c. 9
 - d. 10
15. If LINGER is 123456 and FORCE is 56789, then FIERCE is
 - a. 345667
 - b. 456678
 - c. 345677
 - d. 556789