

DAY 07

MCA CET 2025

REASONING

CODING

DECODING



INEXORABLE
MAH MCA CET 2025
FREE CRASH COURSE



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FOR MAH MCA CET 2025



Coding-Decoding

What it is and what is to be done?



Tips Before Starting

E J O T Y
5 10 15 20 25

1. Remember place values of Alphabets of English

A. Forward Direction

B. Reverse Direction

27

C = 3

C = 24

1) Alphabet Position

Alphabet	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

2) Backward Alphabet Position

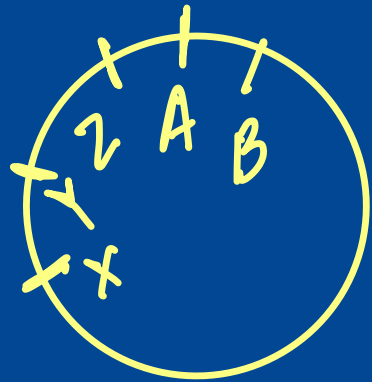
Reverse Alphabet	Z	Y	X	W	V	U	T	S	R	Q	P	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26



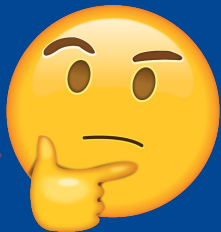
Tips Before Starting

$$C = 3$$
$$X = \underline{\underline{24}}$$

2. Remember corresponding opposite letter



A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
26	25	24	23	22	21	20	19	18	17	16	15	14
Z	Y	X	W	V	U	T	S	R	Q	P	O	N



What is the sum of position of letter and it's opposite?



Types of Questions

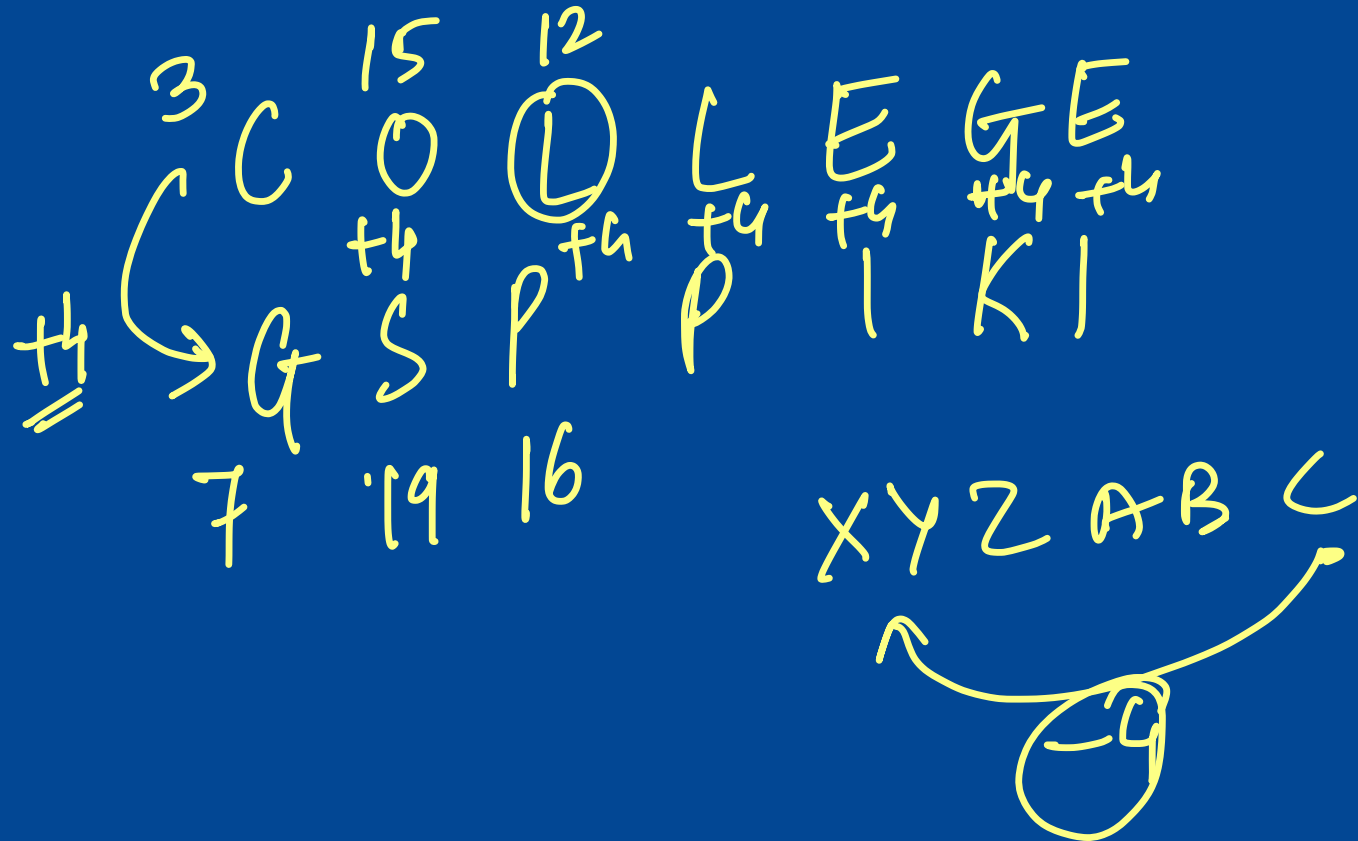
1. Letter Coding
2. Number Coding
3. Mixed Letter/Number Coding
4. Substitution Coding (Chinese Coding)



Example

1. Letter Coding

In a certain language 'COLLEGE' is written as 'GSPPIKI', then how will 'GROUPS' be written?





Example

2. Number Coding

READ
7421

BOOK
8335

If READ is coded as 7421 and BOOK is coded as 8335, then how is BOARD coded?

83271 → 83271



Example

3. Mixed Letter/Number Coding

In a certain code,

'247' means 'spred red carpet'

'236' means 'dust one carpet'

'234' means 'one red carpet'

Then what is the code for 'spread'?

7



Example

4. Substitution Coding (Basic)

In a certain code,

'book' is coded as 'pencil',

'pencil' is coded as 'mirror',

'mirror' is coded as 'board'

Then what is useful to write on paper?

pencil



Example

Chinese Coding

4. Substitution Coding (Complex)

In a certain code,

'he is good' is coded as 'si po re',

'she is bad' is coded as 'ti na re',

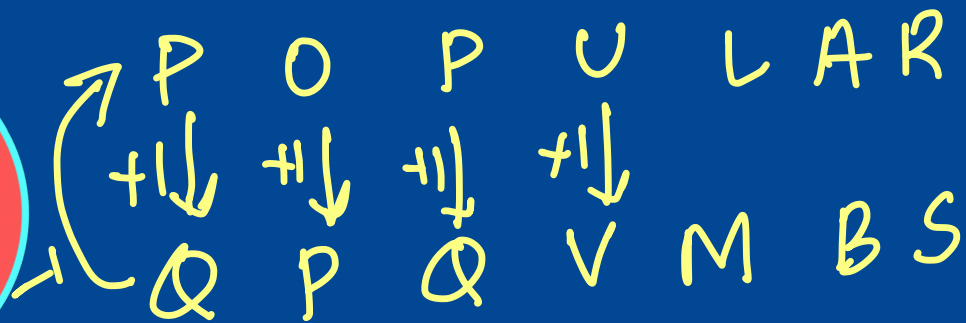
'he can' is coded as 'ka si'

'she play' is coded as 'de ti' *de re ka*

Then what should be code for 'play is can'?

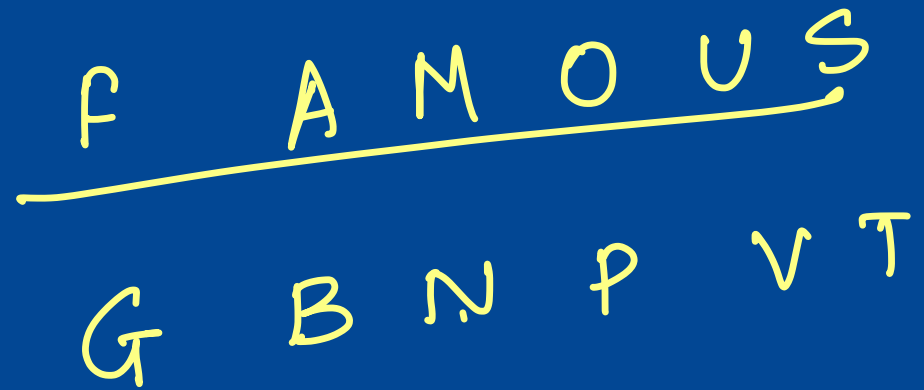
- a. ka de re
- c. ka re na

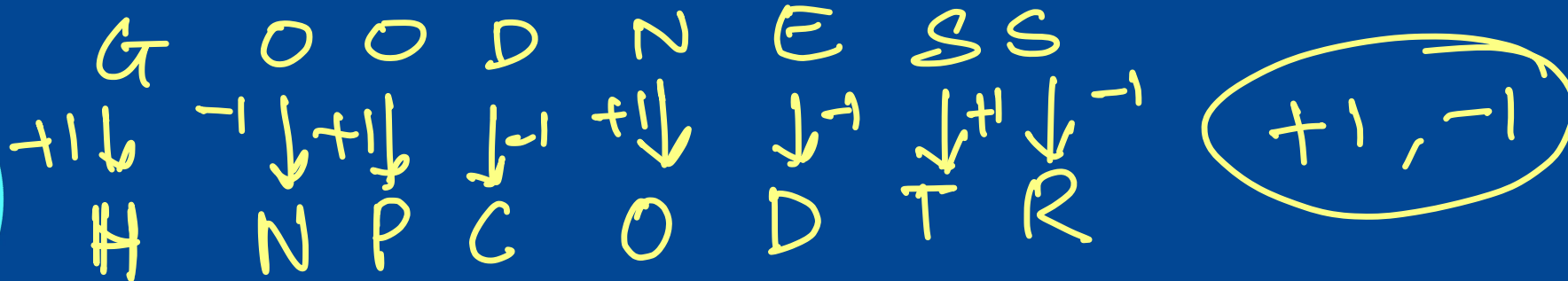
- b. ti po ka
- d. de si re



If in a certain language, 'POPULAR' is coded as 'QPQVMBS', then which words from the following would be coded as 'GBNPVT'?

- (a) FARMER
- (b) FAMOUS**
- (c) FRAMES
- (d) FAMOTH





In a certain code, 'GOODNESS' is coded as 'HNPCODTR'. How is 'GREATNESS' coded in that same code?

- (a) HQFZUODTR
- (b) HQFZUMFRT**
- (c) HQFZSMFRT
- (d) None of these

B

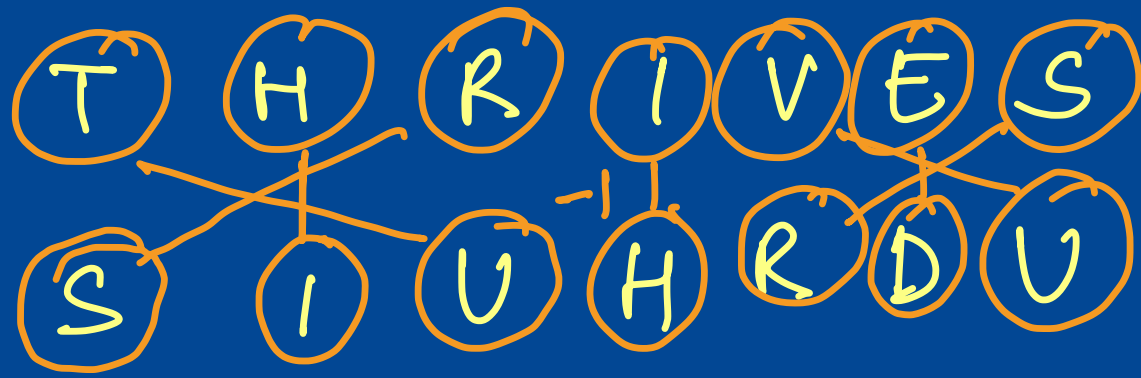




If VEHEMENT is written as VEHETNEM, then how MOURNFUL be written in that code language?

- ~~(a)~~ MOURLUFN
- (b) MOUNULER
- (c) OURMNFUL
- (d) URNFULMO

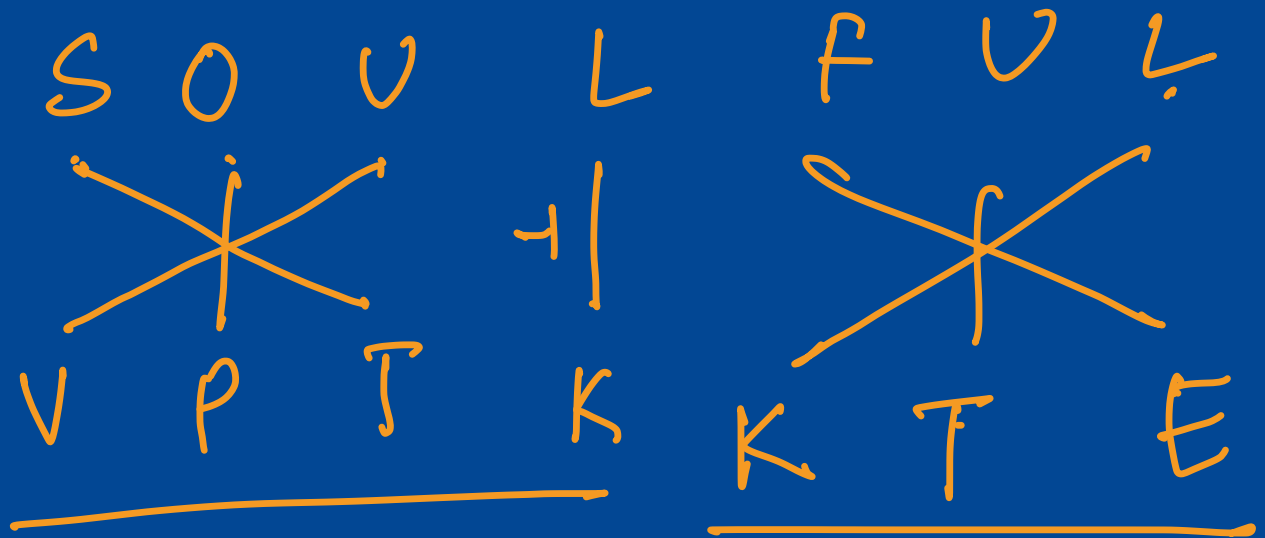
M O U R N E U L
M O U R L U F N



In a certain code, 'THRIVES' is written as 'SIUHRDU'.
How is 'SOULFUL' written in that same code?

A

- ~~(a) VPTKKTE~~
- (b) VPTKETK
- (c) TPKKTE
- (d) TNRKMVG





If A = 26, SUN = 27, then CAT = ?

- (a) 29
- (b) 27
- (c) 57
- (d) 58

1
↓ ↓ ↓
3 1 20
24 26 7
→
50 + 7 = 57

S U N
19 21 14
↓ ↓ ↓
8 + 6 + 13

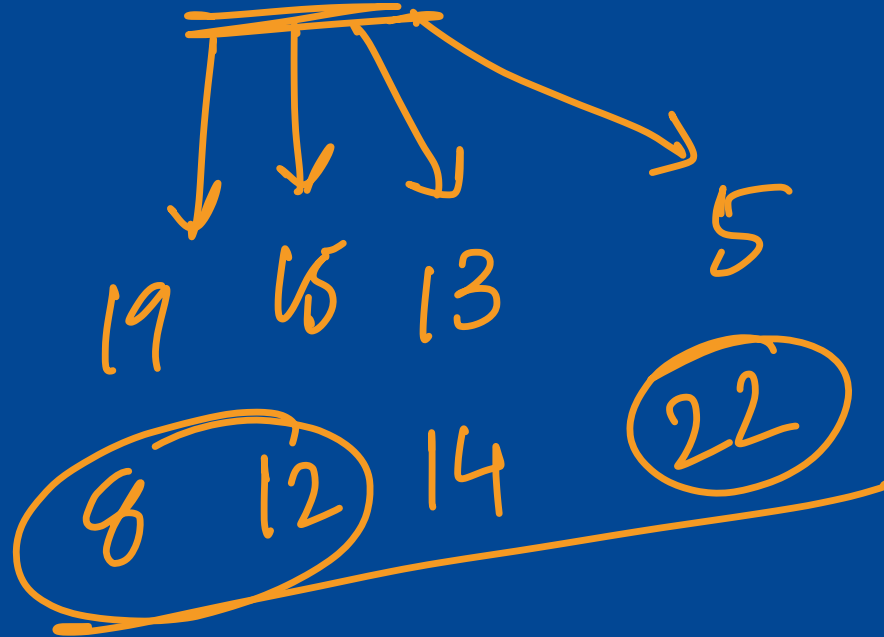


$$\begin{array}{r} G \quad 0 \\ 7 \quad 15 = 22 \\ 20 \quad 12 = 32 \end{array}$$

E S Q T Y

If GO = 32, SHE = 49, then SOME will be equal to

- (a) 56
- (b) 57
- (c) 58
- (d) 62





In a certain code language, 'CAKE' is written as '6' and 'JUICE' is written as '7'. How will 'JUG' be written in that language?

(a) 4

(b) 5

(c) 3

(d) 6

$$4 + 2 = 6$$

$$5 + 2 = 7$$

$$3 + 2 = 5$$



In a certain code language, 'NOPE' is coded as '100' and 'EGG' is coded as '38'. How will 'LAP' be coded in that language?

- (a) 27
- (b) 31
- (c) 29
- (d) 58



$5 + 7 + 7 = 19$

$19 \times 2 = 38$

$LAP = 12 + 1 + 16 = 29 \times 2 = 58$



In a certain code language, 'BANKER' is coded as '57' and 'SPAN' is coded as '54'. How will 'PRANK' be coded in that language?

(a) 58

(b) 61

(c) 65

(d) 69

$$\begin{array}{ccccccc} 2 & 1 & 1 & 4 & 1 & 1 & 5 \\ 1 & 1 & 1 & 1 & 1 & 1 & 1 \end{array}$$

Handwritten notes: $51 + 6 = 57$ (with 57 circled), and an arrow pointing from the circled 18 in the second row to the circled 57.

$$19 + 16 + 1 + 14$$

$$= 50 + 4 = 54$$

PRANK

$$\begin{array}{ccccccc} 1 & 6 & 1 & 8 & 1 & 1 & 4 & 1 & 1 \end{array}$$

$$60 + 5 = 65$$



G L O V E
 7 12 15 22 5 (61)
 20 15 12 5 22 → 74 × 2

In a certain code language, 'GLOVE' is coded as '148'. How will 'OBDURATE' be coded in that language?

(a) 602

(b) 402

(c) 520

(d) 502

O B D U R A T E
 15 2 4 21 18 1 20 5
 12 25 23 6 9 26 7 22
 74 × 2 = 148
 260

520



In a certain code, RAIN is written as '8~~7~~%6' and 'MORE' is written as 7#8@'. How would 'REMAIN' be written in that code?

- (a) 8@7\$86
- (b) 8@\$7%6
- (c) 8@7\$6%
- (d) 8@7\$%6

Handwritten solution: 8@7\$%6

Handwritten annotations: A blue arrow points from the '8' in 'RAIN' to the '8' in 'MORE'. A blue arrow points from the '7' in 'RAIN' to the '\$' in 'REMAIN'. A blue arrow points from the '%' in 'RAIN' to the '%' in 'REMAIN'. A blue arrow points from the '6' in 'RAIN' to the '6' in 'REMAIN'. A blue circle is drawn around the '8' in 'REMAIN'.



In a certain code,

'P' is '#';

'A' is '%';

'C' is '!';

'E' is '@';

How is PACE written in that code?

(a) #!#%

(b) !%@%!

(c) #% !@

(d) %@#!



In a certain code language,
'come again' is written as 'ho na',
'come over here' is written as 'pa na ta',
'over and above' is written as 'ki ta ja'.
How is 'here' written in that code language?

- (a) pa
- (b) ta
- (c) ja
- (d) na



In a certain code language,

'open the door is written as 'ka jo',

'door is closed' is written as 'jo pa ma'

'this is good' is written as 'la ra pa'.

What is the code for 'closed'?

(a) ja

(b) pa

(c) ma

(d) ra

→ closed



In a certain code language,

3a, 2b, 7c means 'truth is eternal',

7c, 9a, 8b, 3a means 'enmity is not eternal'

'4d, 2b, 8b' means 'truth does not.'

Which of the following means 'enmity' in that language?

(a) 3a

(b) 7c

(c) 8b

(d) 9a

9a

DAY 08

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ALPHABET

TEST



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