

**MAH-CET 2024 FOR
BCA BBA BBM BMS**



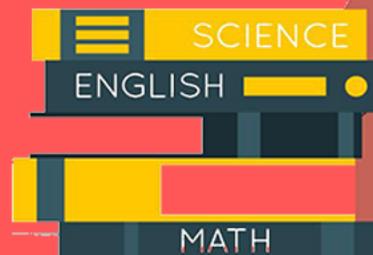
**CRASH
COURSE**

DAY - 2

REASONING



**CODING-
DECODING**





**TOTAL
QUESTIONS
TODAY:**

27

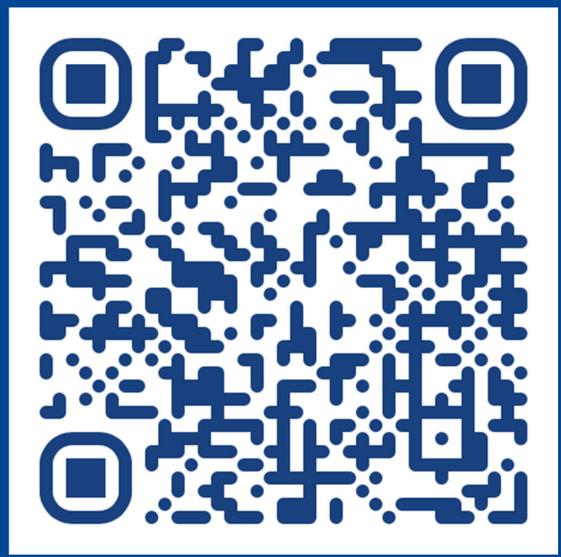
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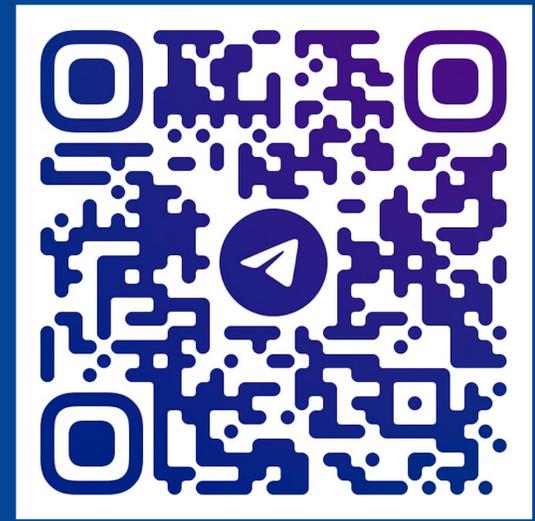
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Coding-Decoding

What it is and what is to be done?

Original

ABC → 123

military

Name -

Code word



Tips Before Starting

1. Remember place values of Alphabets of English

- A. Forward Direction
- B. Reverse Direction

E | J | O | T | Y
5 | 10 | 15 | 20 | 25

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

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

(1-2) Q

- ✓ 1. Letter Coding
- ✓ 2. Number Coding
- ✓ 3. Mixed Letter/Number Coding
- ✓ 4. Substitution Coding



Example 3 → 7

E	I	J	O	T	Y
5	10	15	20	25	

1. Letter Coding

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

$\frac{12}{16}$

	C	O	L	L	E	G	E	
	+4	+4	+4	+4	+4	+4	+4	p-16
R-19	G	S	P	P	I	K	I	20- 19
22								23
21								
+4								
25								
	G	R	O	U	P	S		
	+4	+4	+4	+4	+4	+4		
	K	V	S	Y	T	W		



Example

2. Number Coding

READ BOOK
7421 8335

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

↓ ↓ ↓ ↓ ↓
83271

BOARD — 83271



Example

3. Mixed Letter/Number Coding

In a certain code,

'2(4)7' means 'spread red carpet'

'2 3 6' means 'dust one carpet'

'2 3(4)' means 'one red carpet'

Then what is the code for 'spread'?

Carpet - 2
one - 3
red - 4.

spread → (7)



Example

→ CHINESE CODING

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?

MIRROR

Example

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

b. ti po ka

c. ka re na

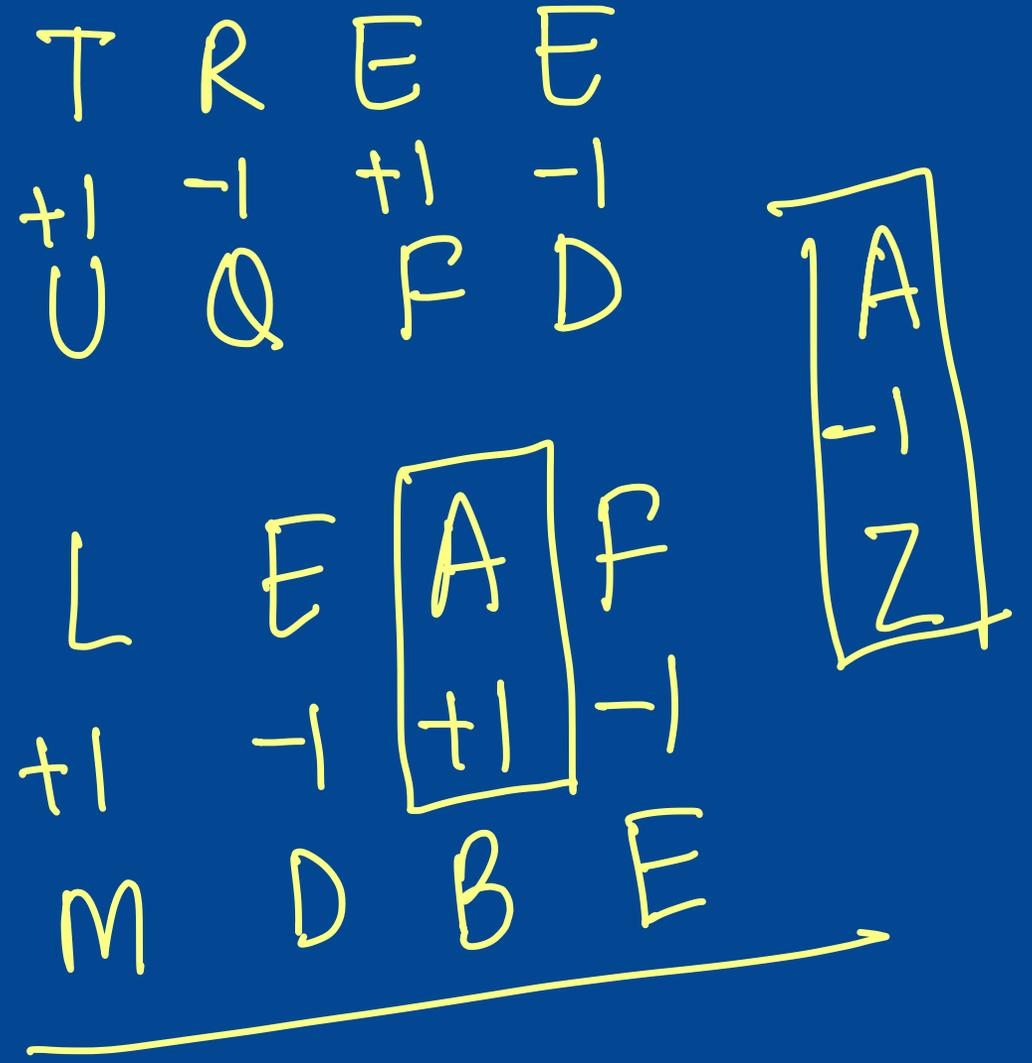
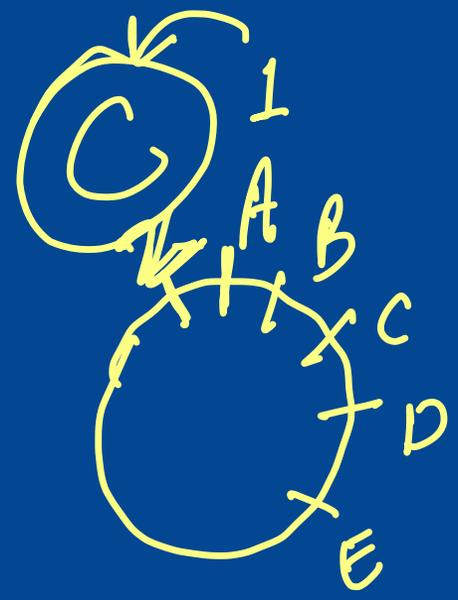
d. de si re

A



1. In a certain code, TREE is written as UQFD. How is LEAF written in that code?

- A. MFBG
- B. KDZE
- C. MDBE
- D. MBZE



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

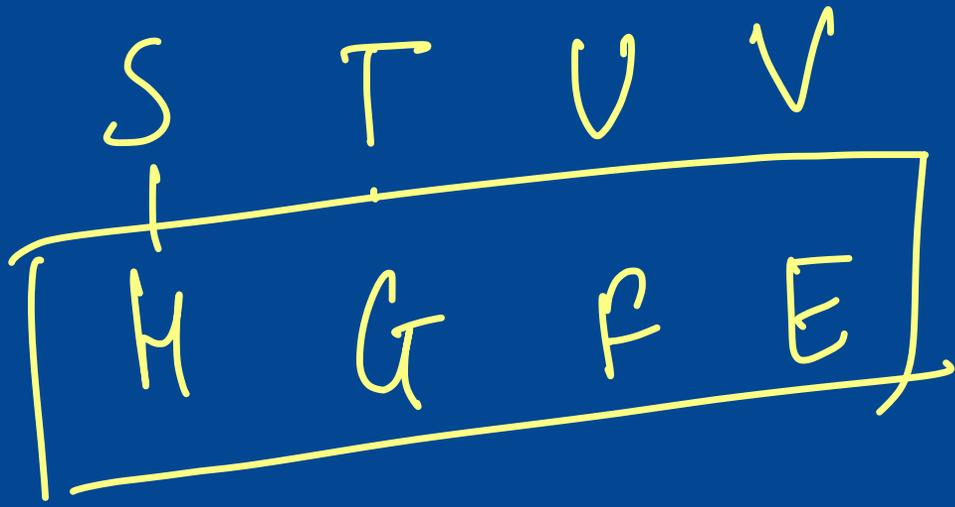
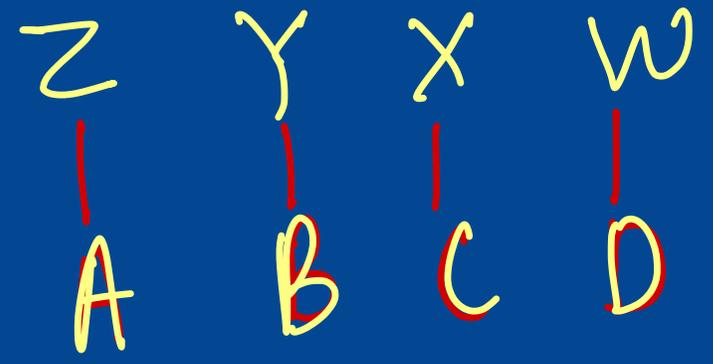




2. ZYXW is coded as ABCD, then STUV is coded as

- A. EFGH
- B. HGFE**
- C. HIJK
- D. HGFEF

B



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



3. If ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for SEARCH?

- A. 216473
- B. 246173
- C. 214673
- D. 214763

C

R O S E
6 8 2 1
7 9 1 1

C H A I R
7 3 4 5 6
+ -
P R E A C H
9 6 1 4 7 3
- ↑↑

S E A R C H
2 1 4 6 7 3



4. If PALE is coded as 2134, EARTH is coded as 41590, how can PEARL be coded in that language?

- A. 25430
- B. 29530
- C. 25413
- D. 24153

D

P E A R L
2 4 1 5 3



5. If 'GODAVARI' is coded as 'KSHEZEVN', how can 'NARMADA' be coded?

- A. REQEHE
- B. REVQEHE**
- C. RDVQEHE
- D. REUPEHE

B

G O D A V A R I
 +4 +4 +4 +4 +4 +4 +4 +4
 K S H E Z E V N

N A R M A D A
 R E V Q E H E

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



7. If TAP is coded as SZO, then how is FREEZE coded?

- A. EQDDZD
- B. ATSSTS
- C. EQDDYD
- D. ESDDYD

C

T A P
- - -
S Z O

F R E E Z E
- - - - -
E Q D D Y D

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



8. In a certain code LEARNING is written as LGNINRAE. How will SURPRISE be written in that code?

- A. ESRIPRUS
- B. RUSEPSIR
- ✓ C. SESIRPRU
- D. ESIRPRSU

C

LGNINRAE

SESIRPRU

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



9. Here are some words translated from an artificial language.

lelibroon means yellow hat

plekafroti means flower garden

frotimix means garden salad

Which word could mean “yellow flower”?

- A. lelifroti
- B. lelipleka
- C. plekabroon
- D. frotibroon

pleka

B



10. Here are some words translated from an artificial language.

moolokarn means blue sky

wilkospadi means bicycle race

moolowilko means blue bicycle

Which word could mean "racecar"?

A. wilkozwet

B. spadiwilko

C. moolobreit

D. spadivolo

spadi

D



11. If BUS is coded as EXV, then how is TAP coded?

- A. WDS
- B. SDW
- C. WSD
- D. DSW

A

B +3 → E
U +2 → X
S +1 → V

T +3 → W
A +3 → D
P +3 → S

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



12. The word BODY is represented by APCZ.
What will represent DELHI?

- A. CFKHI
- B. EFMIJ
- C. CFKIH**
- D. CFKGGH

C

B O D Y
- + - +
A P C Z

D E L H I
- + - + -
C F K I H

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



13. If PAINT is coded as 74128 and EXCEL is coded as 93596, then how would you encode ACCEPT?

- A. 455978
- B. 547978
- C. 554978
- D. 735961

A

A	C	C	E	P	T
4	5	5	9	7	8



14. If DELHI is coded as 73541 and CALCUTTA as 82589662,
how can CALICUT be coded?

A. 5279431

B. 5978213

C. 8251896

D. 8543691

C

C	A	L	I	C	U	T
8	2	5	1	8	9	6



15. Here are some words translated from an artificial language.

granamelke means big tree

pinimelke means little tree

melkehoon means tree house

Which word could mean "big house"?

A. granahoon

C. pinihoon

B. pinishur

D. melkegrana

grana hoon

A



16. Here are some words translated from an artificial language.

gorblflur means fan belt

pixngorbl means ceiling fan

arthtusl means tile roof

Which word could mean "ceiling tile"?

A. gorbtlusl

B. arthflur

C. flurgorbl

D. pixnarth

pixn arth

D



17. In certain code, TEACHER is written as VGCEJGT. How is CHILDREN written in that code?

- A. EJKNEGTP
- B. EGKNFITP
- C. EJKNEFGTO
- D. EJKNFTGP

D

T E A C H E R
 +2 +2 +2 +2 +2 +2 +2
 V G C E J G T

C H I L D R E N
 E J K N F T G P

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



18. If VXUPLVH is written as SURMISE, what is SHDVD?

- A. PEASA
- B. WEASA
- C. PEWSA
- D. DERSA

A



S H O V D
P E A S A

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



19. In a certain code, 'lily' is called 'rose', 'rose' is called 'gulmohar', 'gulmohar' is called 'lotus', 'lotus' is called 'poppy', 'poppy' is called 'sunflower'. Then which is the national flower of India?

- A. lotus
- B. poppy
- C. rose
- D. gulmohar



lotus



20. In a code language,
CHILD is coded as 32546
MODEL is coded as 17684
then OLEIC is coded as ?

- A. 74213
- B. 45321
- C. 77853
- D. 74853

D

O L E I C
7 4 8 5 3



In a certain code language

'Entrance Score High' is coded as 'gt dt ct'

"Score Result Rank' is coded as 'dt bj rt'

'High Rank Advantage' is coded as 'ct bj nt'

'Practice Exam High' is coded as "bt ht ct'

'Exam Analysis Score' is coded as 'dt st ht'

21. Which among the following is the code for 'Exam'?"

A. ht

B. bt

C. ct

D. st

A



In a certain code language

'Entrance Score High' is coded as 'gt dt ct'

'Score Result Rank' is coded as 'dt bj rt'

'High Rank Advantage' is coded as 'ct bj nt' —

'Practice Exam High' is coded as "bt ht ct' —

'Exam Analysis Score' is coded as 'dt st ht'

22. What will be the code for 'High Analysis' in the given code language?

A. ct st

B. gt st

C. ct bj

D. st ht

A

ct st



In a certain code language

'Entrance Score High' is coded as 'gt dt ct'

"Score Result Rank" is coded as 'dt bj rt'

'High Rank Advantage' is coded as 'ct bj nt'

'Practice Exam High' is coded as "bt ht ct'

'Exam Analysis Score' is coded as 'dt st ht'

23. The code 'bj' stands for which among the following words?

A. Score

B. Rank

C. Result

D. Advantage

B

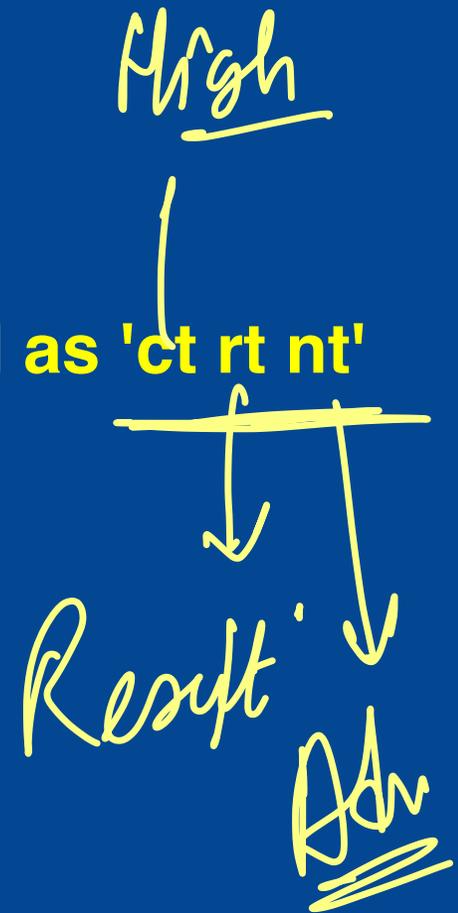


In a certain code language
'Entrance Score High' is coded as 'gt dt ct'
"Score Result Rank' is coded as 'dt bj rt'
'High Rank Advantage' is coded as 'ct bj nt'
'Practice Exam High' is coded as "bt ht ct'
'Exam Analysis Score' is coded as 'dt st ht'

24. Which among the following words are coded as 'ct rt nt'
in the given code language?

- A. Practice High Result
- B. High Result Advantage
- C. Exam Analysis Score
- D. Rank Score High

B





In a certain code language

'Entrance Score High' is coded as 'gt dt ct'

'Score Result Rank' is coded as 'dt bj rt'

'High Rank Advantage' is coded as 'ct bj nt'

'Practice Exam High' is coded as 'bt ht ct'

'Exam Analysis Score' is coded as 'dt st ht'

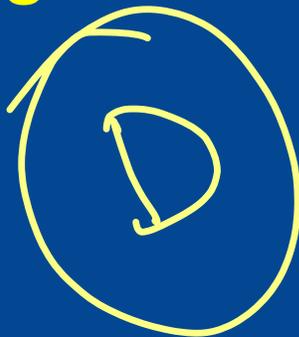
25. What is the code for 'Analysis' according to the given code language?

A. rt

B. ht

C. nt

D. st





26. In a certain code, SURVEY is coded as TWUZJE and APPLY as BRSPD. Then how is WISDOM coded?

- A. XKTHTS
- B. XKVHTS
- C. YLISUV
- D. YLISVU

B

S U R V E X
 +1 +2 +3 +4 +5 +6
 T W U Z J E

W I S D O M
 +1 +2 +3 +4 +5 +6
 X K V H T S

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



27
26

In a certain code, CAT=8, POST=17, then what will be code for INDIA?

- A. 25
- B. 7**
- C. 5
- D. None

8

$$\begin{array}{ccc} C & A & T \\ 3 & + & 1 & + & 20 \\ \hline & & 24 & & = 8 \end{array}$$

$$\begin{array}{cccc} I & N & D & I & A \\ 9 & + & 14 & + & 4 & + & 9 & + & 1 \\ \hline & & 37 & & = & 7 & 2 \end{array}$$

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
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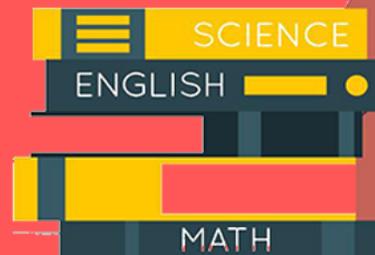


**CRASH
COURSE**

DAY - 3

MATHS

**NUMBER SYSTEM
HCF & LCM**





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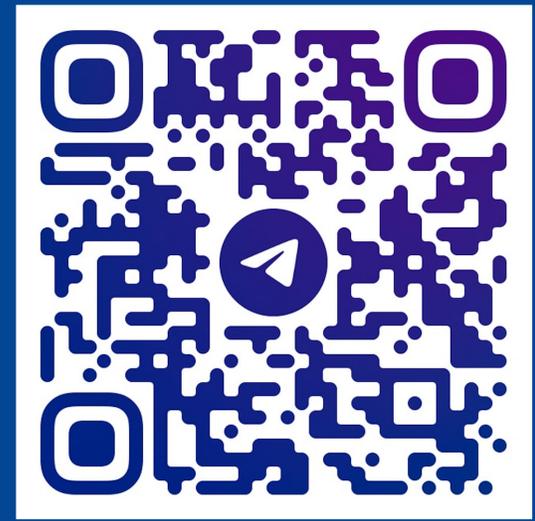
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