# REASONING

## Coding Decoding Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam

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

2. If TEAR means VCCP and ROME means TMOC, what will be the code for WORD?
   - A. YQPB
   - B. YMTB
   - C. UQTF
   - D. USPF

3. In a certain code, 33946 is coded as PPOAL and 1987 is coded as ROSE. How is 94678 coded in that code?
   - A. ROSEP
   - B. OALES
   - C. POALE
   - D. OSEPL

4. In a certain code, PROSE is coded as PPOQE. How is LIGHT coded in that code?
   - A. LIGFT
   - B. LGGHT
   - C. LGGFT
   - D. LLGFE

5. In. a certain code, GOODNESS is coded as HNPCODTR. How is GREATNESS coded in that code?
   - A. HQFZUODTR
   - B. HQFZSMFRT
   - C. FSDBSODTR
   - D. HQFZUFRTM

6. In a certain code, 'CERTAIN' is coded as 'XVIGZRM'. How is 'MUNDANE' coded in that code?
   - A. NFMWZMV
   - B. VMZWMEN
   - C. NFMWZMX
   - D. NFMXZMV

7. In a certain code MADRAS is coded as NBESBT How is BOMBAY coded in that code?
   - A. CPNCBX
   - B. CPNCBZ
   - C. CPOCBZ
   - D. CQOCBZ

8. In a certain code language MADRAS is coded as 'ARSARS', then how will 'MUMBAI' be coded in that language?
   - A. UBMUBM
   - B. MUMMUM
   - C. MBAMBA
   - D. UBIUBI

9. In a certain code language, 6842 is coded as BIRD, 1437 is coded as CROW, then how will 7342 be coded in that language?
   - A. ORWD
   - B. WORD
   - C. ROWD
   - D. DORW

10. In a certain code language, if the word 'GRADUATE' is coded as HQCBXXXA, then how will you code the word 'LABORATORY' in that language?

   - A. MZDMRXXKWTK
   - B. MZDMVWXKWT

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C. MZDMUXXKWT
D. MZDMUXWKWT

11. In a certain code language,
'423' is coded as 'Hyderabad is beautiful',
'735' is coded as 'Beautiful flower pleasant',
'524' is coded as 'Hyderabad is pleasant'.
Then the code for 'beautiful' and 'pleasant' are?
    A. 5, 3
    B. 3, 5
    C. 5, 2
    D. 5,4

12. '456' means 'she is beautiful'.
'632' means 'he is handsome'.
'517' means 'she works hard',
'486' means 'flower is beautiful'.
Then codes of 'flower' and 'is' are?
    A. 4,5.
    B. 2, 7
    C. 8, 6
    D. 6, 7

13. If 'RELATION' is written as 'OFMBUJPS'.
Then how 'IMPORTANT' is written?
    A. JNQPSUBOU
    B. FNQPSUBOU
    C. UNQPSUBOJ
    D. FNQPSUBOR

14. If 'ORKUT' is coded as 'LIPFG'. How can
'TUMBLR' be coded?
    A. RLBMUT
    B. GFNYOI
    C. IOYNFG
    D. RBLMUT

15. In a certain language, 'DIRECTOR' is coded as
'IDERTCRO', then how 'CHAMPION' is coded in
that language?
    A. HACMNOPI
    B. HCMNOPIA
    C. HCMAIPON
    D. HCMAIPNO

16. Which of the following words correctly
decode the words 'TBIZUB'. if the simple
alphabet shifting code is used?
    A. ARTISTS
    B. FORWARD
    C. WELCOME
    D. BLBYAZI

17. 'MOTIVATION' is coded as 'NOUIWAUIPN',
then 'STRONG' is coded as?
    A. TTSOOG
    B. TTRSMG
    C. SSTTMG
    D. GMOSTT

Directions (18-22): Observe the coded language
given below and answer the questions that
follow.

In a certain code language.
    A. 'ju tu ne' means 'rain is heavy'
    B. 'ka ne da' means 'summer is hot'
    C. 'paa ble ka' means 'winter was hot'
    D. 'tho pic joo' means 'clever student reads'
    E. 'sue tu qle' means 'rain drops fall'
    F. 'ble qle tho' means 'winter drops clever'

18. What is the code for 'was'?
    A. ble
    B. paa
    C. ka
    D. None

19. What is the code for 'fall'?
    A. sue
    B. qle
    C. tho
    D. tu

20. What is the code for 'reads'?
    A. pic
    B. joo
    C. tho
    D. 'pic' or 'joo'

21. What is the code for 'winter heavy rain' ?
    A. ble ka ju
    B. ju tue qle
    C. ju tu ble
    D. sue tu pic

22. What is the code for 'summer is clever'?
    A. da tho ne
    B. pic sue ble
    C. ble tu ne
    D. ble sue ne

Directions (23-27): Observe the coded language
given below and answer the questions that
follow.

In a certain code language,
   A. '7462' means 'you are very intelligent
   B. '2357' means 'they seem very intelligent'
   C. '491' means 'you can see'
   D. '0852' means 'how intelligent they is'
   E. '896' means 'is can are'

23. What is the code for 'see'?
   A. 1
   B. 9
   C. 4
   D. 6

24. What will be the decode of the digit 'O'?
   A. they
   B. how
   C. is
   D. intelligent

25. What will be the decode of the digit '2'?
   A. seem
   B. they
   C. intelligent
   D. very

26. What will be the code for 'they can see'?
   A. 915
   B. 916
   C. 718
   D. 719

27. What will be the code for 'how very is'?
   A. 714
   B. 836
   C. 807
   D. Cannot be determined

28. 'SURVEY' is coded as 'TTSUFX' then
'WISDOM' is coded as?
   A. XHTCPL
   B. XHTEPL
   C. XHRCPL
   D. XHTCNL

29. 'WISE MAN' is coded as '1324 658'
"WINTER' is coded as '138749'
then 'SAME WATER' is coded as?
   A. 2764 15849
   B. 2564 15749
   C. 2563 15849
   D. 2456 15749

Note: In a code BAT is written as AZS and ROOM is written as QNNL. Find the process of coding and answer the questions 30 to 39

30. The code for RANGE is ?
   A. QZMFD
   B. QMZFD
   C. MQZFD
   D. MZFDQ

31. The code for ELEPHANT ?
   A. HIHRPMIB
   B. DKDOGZMS
   C. DKODGZMS
   D. HIHRPBMX

32. The code for CORE ?
   A. ABNQ
   B. BNQD
   C. NBDQ
   D. QBND

33. The code for HELMET is ?
   A. DKGSLD
   B. DGKLDS
   C. GDKLDS
   D. XAMBXY

34. The code for PRAXIS is ?
   A. RHWZQO
   B. QZWOHR
   C. PQRSTU
   D. OQZWHR

35. The code for DAMAGE is ?
   A. CZZLFD
   B. DCZFLZ
   C. XBPBAL
   D. CZLZFD

36. The code for COURSE is ?
   A. BNTQRD
   B. NBTQDR
   C. DRQTNB
   D. RDQTBN

37. The code for SACHIN is ?
   A. MHGBZR
   B. RZBGHM
   C. RZBHGM
   D. RZBMHG

38. The code for LAPTOP is ?
    A. KZOONS
    B. ONOSKZ
    C. KZOSNO
    D. ONSOZK

39. The code for GUN is ?
    A. FTM
    B. MTF
    C. IKJ
    D. KJI

40. If CAT is coded as PATC, JOY is coded as POYJ; similarly, the word WING will be coded as –
    A. PIGNW
    B. PINGW
    C. PGNIW
    D. PIWGN

**Directions (41-45): Observe the coded language given below and answer the questions that follow**

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'

41. Which among the following is the code for 'Exam'?
    A. ht
    B. bt
    C. ct
    D. st

42. 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

43. The code 'bj' stands for which among the following words?
    A. Score
    B. Rank
    C. Result
    D. Advantage

44. 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

45. What is the code for 'Analysis' according to the given code language?
    A. rt
    B. ht.
    C. nt
    D. st

## Answer Key

| 1. C | 2. B | 3. B | 4. C | 5. B | 6. A | 7. B | 8. B | 9. B | 10. C |
|------|------|------|------|------|------|------|------|------|-------|
| 11. B | 12. C | 13. C | 14. B | 15. D | 16. C | 17. A | 18. B | 19. A | 20. D |
| 21. C | 22. A | 23. A | 24. B | 25. C | 26. A | 27. C | 28. A | 29. B | 30. A |
| 31. B | 32. B | 33. C | 34. D | 35. D | 36. A | 37. B | 38. C | 39. A | 40. B |
| 41. A | 42. A | 43. B | 44. B | 45. D | | | | | |

## HINTS & SOLUTIONS

1.
| T | R | E | E |
|---|---|---|---|
| +1 | -1 | +1 | -1 |
| U | Q | F | D |

SIMILARLY
| L | E | A | F |
|---|---|---|---|
| +1 | -1 | +1 | -1 |
| M | D | B | E |

2.
| T | E | A | R |
|---|---|---|---|
| +2 | -2 | +2 | -2 |
| V | C | C | P |

| R | O | M | E |
|---|---|---|---|
| +2 | -2 | +2 | -2 |
| T | M | O | C |

Similarly,

| W | O | R | D |
|---|---|---|---|
| +2 | -2 | +2 | -2 |
| Y | M | T | B |

3. The numbers are coded as shown:
| 3 | 9 | 4 | 6 | 1 | 8 | 7 |
|---|---|---|---|---|---|---|
| P | O | A | L | R | S | E |

i.e.
9 as O,
4 as A,
6 as L,
7 as E,
8 as S.
So, 94678 is coded as OALES.

4. The correct option is C LGGFT

| P | R | O | S | E |
|---|---|---|---|---|
| +0 | -1 | +0 | -1 | +0 |
| P | P | O | Q | E. |

The first, third and fifth letters are same but in place of the second and the fourth letters, previous two letters are used.
So, LIGHT is coded as LGGFT in this code.

5.
Here, the letters at odd places in the coded word are one letter ahead of the letters in the given word, and letters at even places are one letter behind of the letters in the given word as their positions in the alphabet.
Similarly, GREATNESS is coded as HQFZUMFRT.
Hence, option (B) is the correct answer.

6. Each letter in the word is replaced by the letter which occupies the same position from the other end of the alphabet, to obtain the code.
Thus, MUNDANE will be coded as NFMWZMV

7. Refer to the English alphabets:
The rule of coding is +1 Every letter is moving one step forward
∴ BOMBAY is coded as CPNCBZ which is (b)

8. The correct option is B UBIUBI

Remove 1st, 3rd and 5th letter of the word and repeat the remaining letters to get the code.
For the word MADRAS,
M,D,A are removed and ARS is repeated twice.
For the word MUMBAI,
M,M,A should be removed and UBI is repeated twice.
Thus, the code for MUMBAI is UBIUBI.

9. We can decode this code from the question itself. 7,3,4 are in the second code and 2 is in the first code. From both codes, 7342 can be coded as WORD.

10.
G  R  A  D  U  A  T  E
+1 -1 +2 -2 +3 -3 +4 -4
H  Q  C  B  X  X  X  A
**SIMILARLY**
L  A  B  O  R  A  T  O  R  Y
+1 -1 +2 -2 +3 -3 +4 -4 +5 -5
M  Z  D  M  U  X  X  K  W  T
+1 – 1 +2 – 2  +3 –3 +4 – 4 +5 -5

11. From statement (1) and (2), 'beautiful' →'3'. From statements (2) and (3), 'pleasant' →'5'.

12. From statement (1) and (2), 'is' → 6.
From statement (1) and (4), 'beautiful'→ 6.
Then from statement (4), we can say, 'flower' → 8.

13. Each letter in the word is moved one step forward and then first and last letters are interchanged.

14. Each letter in the word is replaced by its opposite letter to obtain the code.

15. A pair of two letters are reversed in order.

16. Solve this kind of questions using the given options. The given code is obtained by moving each letter of the word WELCOME three steps backward.

17. Here only alternative letters are increased by 1.

18. From statement (B) and (C), 'hot' → 'ka'.
From statement (C) and (F), 'winter' → 'ble'.
By substituting above results in statement (C), we get the code for 'was' i.e. 'paa'.

19. From statements (E) and (F), 'drops' → 'qle' From statements (A) and (E), 'rain' → 'tu'.
By substituting above results in statement (E), we get the code for the word 'fall' i.e. 'sue'.

20. From statements (D) and (F), 'clever' → tho. the code for the word 'reads' will be either 'pic' or 'joo', but we can't say which is exactly from both of these.

21. From statements (C) and (F), 'winter' → 'ble'. From statements (A) and (E), 'rain' → 'tu'.
From statements (A) and (B), 'is' → 'ne'. So, 'heavy' is coded as ' ju'.
'winter heavy rain' is coded as combination of 'ble', 'tu', 'ju', which is in option-c.

22. From statements (A) and (B), 'is' → 'ne'.
From statements (B) and (C), 'hot' → 'ka'.
Substitute above results in
'summer' →'da'
From statements (D) and (F), 'clever' → 'tho.
Thus, the code for 'summer is clever' is 'da tho ne', which appears in option-a.

23. From statements (A) and (C), you' → '4'
From statements (C) and (E), 'can' → '9' & 'see'→'1'

24. The digit '0' is in statement (D). So, from statements (D) and (E), 'is' → '8' From statements (B) and (D), 'they' → '5' From statements (A) and (D), 'intelligent' → '2'

thus 'how' → '0'. Therefore, the decode of '0' is 'how'.

25. From statements (A), (B): '27'→ very intelligent. From statements (B), (D): '25→ they intelligent'
From the above two statements, '2' → Intelligent'.

26.
From statements (B) and (D), 'they'→ '5'.
From statements (C) and (E), 'can' → '9'.From statements (A) and (C), 'you' → '4'.
So, 'see' → '1'.
Thus, the code for 'they can see' is '915'.

27. From the statements (D), (E): 'is' → '8'.
From statements (B), (D):
'they intelligent' → '2 5'.
So, 'how' → '0'.
From (A), (B): 'very intelligent' → '2 7'.
By comparing above two statements
'intelligent' → 2'.
So, 'very' → 7
Thus, the code for 'how very is' → '708'.

28.

| S | U | R | V | E | Y |
|---|---|---|---|---|---|
| +1 | -1 | +1 | -1 | +1 | -1 |
| T | T | S | U | F | X |

Similarly

| W | I | S | D | O | M |
|---|---|---|---|---|---|
| +1 | -1 | +1 | -1 | +1 | -1 |
| X | H | T | C | P | L |

29. Number Coding Question

**Directions For Q.30 to Q.39**
Every letter the given word is coded as '-1' with English alphabet for Questions 28 to 37.

40. In this question P is added at the start of every word, and the first letter of the word is moved to the last letter.
CAT → PATC

JOY → POYJ
WING → PINGW

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