MATRIX

The topic deals with the questions related to two matrices of letters and numbers. Each letters on be denoted by a set of two numbers. In given matrices the first number indicates the in her while the second number represented the column number. By this information's Candidate have to identify the code for given word.

Direction (1 to 5): A word is represented by one set of numbers as given in anyone of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below.
The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., can be represented by 0012, 23 etc. and 'P can be represented by 58, 69, 75 etc. Similarly, you have to identify the set for the word given in each question.

Matrix I

	0	1	2	3	4
0	A	R	S	N	C
1	N	C	A	R	S
2	S	N	C	A	R
3	R	S	N	C	A
4	C	A	R	S	N

Matrix II

	5	6	7	8	9
5	Q	E	L	P	T
6	T	O	E	L	P
7	P	T	O	E	L
8	L	P	T	O	E
9	E	L	P	T	O

EXAMPLE (1): PAST
(a) 75, 21 14, 65 (b) 86, 12, 31, 76
(c) 58, 41, 12, 67 (d) 88, 77, 41, 67
Solution: (b)
According to the question, we can arrange the set for word PAST as
P ⟶ 58, 69, 75, 86, 97
A ⟶ 00, 12, 23, 34, 41
S ⟶ 02, 14, 20, 0, 43
T ⟶ 59, 65, 76,87,98
So, set of word PAST will be : 86, 12, 31, 76.

Example (2) : RATE
(a) 13, 12, 98, 67 (b) 42, 23, 56, 76
(c) 30, 14, 95, 89 (d) 24, 43, 89, 95

Solution: (a)
According to the question, we can arrange the set for word
RATE as
R ⟶ 01, 13, 24, 30, 42 A ⟶ 00, 12, 23, 34, 41
T ⟶ 59, 65, 76, 87, 98, E ⟶ 56, 67, 78, 89, 95
So. set for word RATE will be 13,12,98, 67.

Example (3) : POET
(a) 69, 88, 67, 65 (b) 75, 55, 65, 67
(c) 77, 88, 98, 78 (d) 75, 66, 76, 78

Solution: (a)
According to the question, we can arrange the set I'm word POET as
P → 58,69, 75, 86, 97
0 → 55, 66, 77,88,99
E → 56, 67,78, 89, 95
T → 59,65, 76, 87, 98
So, set for word POET will be 69, 88, 67, 65

Example 4: NEST
(a) 32, 56, 20, 89 (b) 10, 65, 41, 76
(c) 32, 76, 34, 98 (d) 21, 67, 14, 59

Solution: (d)
According to the question, we can arrange the set for word NEST as
N → 03, 10,21, 32, 44
E → 56, 67,78, 89, 95
S → 0214, 20,31, 43
T → 59 , 65, 76, 87, 98
So, set for word NEST will be 21, 67, 14, 59

Example 5: PEST
(a) 97, 89, 34, 59 (b) 58, 67, 43, 98
(c) 57, 59, 31, 98 (d) 68, 95, 31, 76

Solution: (b)
According to the question, we can arrange the set for word PEST as
P → 58 , 69, 75, 86, 97
E → 56,67, 78, 89, 95
S → 02, l4, 20, 31, 43
T → 59, 65, 76, 87, 98
So, set for word PEST will be 58, 67, 43, 98

Example 6:
A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix Ii are numbered from 5 to 9. A letter from these matrixes can be represented first by its row and next by its column eg: “B” can be represented by 01,31, etc.,, and “P” can be represented by 67.75,etc., Similarly, you have to identify the set for the word “:CARD”

Matrix I

	0	1	2	3	4
0	A	B	C	D	E
1	D	C	B	A	E
2	B	A	D	C	E
3	D	B	C	A	E
4	C	D	A	E	B

Matrix II

	5	6	7	8	9
5	P	Q	R	S	T
6	Q	S	P	R	T
7	P	T	R	S	Q
8	Q	S	P	R	T
9	T	P	S	Q	R

Solution: (c)
According to the question, we can arrange the set for word CARD as
C → 02,11, 23, 32, 40
A → 00, 13, 21,33, 42
R → 57,68, 77, 88, 99
D → 03, 10,, 30, 41
So, set for word CARD will be I I, 33, 57, 22.

Example 7: A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix 1 are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. . A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 20, 42 etc., and `H' can be represented by 65,57,98, etc., Similarly you have to identify the set for the word given in the question.
FAITH

Matrix I

	0	1	2	3	4
0	F	A	N	O	I
1	I	O	F	A	N
2	A	N	O	I	F
3	O	F	I	N	A
4	N	I	A	F	O

Matrix II

	5	6	7	8	9
5	S	E	H	B	T
6	H	S	E	T	B
7	B	T	S	E	H
8	E	H	T	B	S
9	T	S	E	H	B

a. 24,31,10,59,57 b. 12,20,40,68,65
c. 31,34,23,76,79 d. 43,42,41,78,89
Solutio (C)
F = 00,12,24,31,43
A = 01,13,20,34,42
I = 04,10,23,32,41
T = 59, 68,76,87,95
H = 57,65,79,86,98

FAITH = 31,34,23,76,79

PRACTICE QUESTIONS

DIRECTION(1-5) :

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix 1 are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. . A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 55,77,88 etc., and `U' can be represented by 10, 02, 23 etc., Similarly you have to identify the set for the word given in the question –

Matrix I

	0	1	2	3	4
0	G	N	U	F	Q
1	U	G	E	C	F
2	B	F	Q	U	N
3	L	G	B	C	F
4	F	E	L	D	B

Matrix II

	5	6	7	8	9
5	A	R	M	Z	S
6	S	Z	O	H	H
7	M	H	A	Z	R
8	Z	T	S	A	H
9	R	Z	M	T	V

1. FEAR

(a) 21, 34, 56, 79
(b) 40. 34, 88, 96
(c) 03, 12 77, 56
(d) 03, 41, 65, 96

2. GUMS

(a) 00, 11, 75, 65
(b) 31, 02, 97, 87
(c) 00, 23, 75, 97
(d) 13, 23. 75, 59

3. LOVE

(a) 30, 67. 76, 34
(b) 42, 68. 99, 12
(c) 03, 67, 99, 34
(d) 30, 67, 99, 12

4. NOSE

(a) 01, 76, 59, 43
(b) 01. 77. 65. 38
(c) 24, 67, 65, 34
(d) 24, 67, 59, 35

5. HUNT

(a) 68, 23, 42, 98
(b) 68, 10, 42, 86
(c) 76, 10, 01, 86
(d) 69, 23, 01, 88

ANSWER

1. C 2.B 3.D 4.C 5.C