Matrix Based Reasoning Questions, Answers & Explanation

EXERCISE

DIRECTIONS: (Qs.1-24): For following questions, two matrices given below, in each matrix there are 25 cells and these cells contain two classes of alphabets. The columns and rows of matrix.

I are numbered from 0 to 4 and that of matrix II from 5 to 9 A letter from these matrices can be represented first by is now number and next by its column number Identify one set of number pairs out of (a), (b), (c) and (d) which represents the number.

Matrix I

	0	1	2	3	4
0	A	P	O	R	H
1	R	E	P	O	A
2	O	A	E	P	R
3	E	O	R	A	P
4	P	R	A	E	O

Matrix II

	5	6	7	8	9
5	F	N	M	S	T
6	T	M	F	N	S
7	M	S	T	I	N
8	N	F	S	T	M
9	S	T	N	M	F

1. MORT
    (a) 66,21 32, 77 (b) 75,44,02,65
    (c) 57,13, 03, 88   (d) 68, 31, 41, 96
2. FASE
    (a) 67, 33, 95, 43   (b) 56, 21, 59, 11
    (c) 86, 42, 77, 22   (d) 99,00,87,31
3. SERAF
    (a) 69, 04, 10, 21, 88   (b) 87,04,24, 42,78
    (c) 76, 43, 24, 32, 99   (d) 58, 30, 32, 44,67
4. PANT
    (a) 12,33,69,77   (b) 23,43,79, 88
    (c) 01, 21, 56, 66   (d) 01, 21, 85, 77
5. TORN
    (a) 96, 13, 24, 69   (b) 77,31,42, 85
    (c) 65, 23, 32, 79   (d) 88, 02, 11,56

For (Qs. 6 – 10) matrices are given below.

MATRIX I

	0	1	2	3	4
0	1	L	A	D	C
1	D	C	1	L	A
2	A	I	D	C	L
3	L	A	C	I	D
4	C	D	L	A	I

Matrix II

	5	6	7	8	9
5	W	R	T	E	Y
6	R	W	Y	T	E
7	E	Y	W	R	T
8	Y	T	E	W	R
9	T	E	R	Y	W

6. DAILY
    (a) 10,31,21,42,85   (b) 22, 43, 00, 32, 67
    (c) 41,14, 13, 24,98   (d) 34, 44, 21, 01, 76
7. RATE
    (a) 89, 20, 96, 69   (b) 65, 03, 86, 96
    (c) 78, 14, 95, 58   (d) 56, 31, 58, 87
8. CIAT
    (a) 11,21,31,87   (b) 32, 44, 20, 68
    (c) 23,34,43,95   (d) 04, 14, 02, 57
9. WEAR
    (a) 77,87,32,89   (b) 99, 78, 14, 56
    (c) 88,69,21,65   (d) 66, 87, 31, 97

10. DWART
    (a) 10, 77, 32, 89, 68   (b) 22, 88, 02, 89, 57
    (c) 34, 99, 43, 66, 79   (d) 41, 66, 20, 78, 88

For (Qs. 11-15) matrices are given below.

Matrix I

	0	1	2	3	4
0	E	H	J	O	A
1	H	O	E	A	J
2	O	J	A	E	H

1

3	J	A	O	H	E
4	A	E	H	J	O

8	T	N	P	R	C
9	R	T	N	C	P

Matrix II

	5	6	7	8	9
5	L	F	S	K	T
6	T	K	L	S	F
7	S	L	F	T	K
8	K	S	T	F	L
9	F	T	K	L	S

11. JOLE:
 (a) 21, 44,89,34   (b) 30, 11, 68, 41
 (c) 14, 33, 98, 23   (d) 43, 20, 76, 13

12. FATH
 (a) 69,13, 79,24   (b) 95, 31, 99, 12
 (c) 88,21,87,42   (d) 77, 22, 96, 33

13. KHOLE
 (a) 66,24,20,76,24   (b) 85, 10, 32, 67, 41
 (c) 97,33,12,89,34   (d) 79, 43, 03, 98, 12

14. FEAST
 (a) 77, 00, 14, 86, 96   (b) 56, 12, 22, 69, 65
 (c) 69,23, 31,75,87   (c) 88, 33, 40, 99, 59

15. LOHA
 (a) 98,20,42,04   (b) 76, 32, 01, 41
 (c) 67,12,24,31   (d) 55, 03, 11, 22

For (Qs. 16-20) matrices are given below.

Matrix I

	0	1	2	3	4
0	A	S	U	E	O
1	U	O	E	S	A
2	S	A	O	U	E
3	E	U	A	O	S
4	O	E	S	A	U

Matrix II

	5	6	7	8	9
5	C	R	T	P	N
6	N	P	C	T	R
7	P	C	R	N	T

16. TUNE
 (a) 68, 31, 79, 41   (b) 85, 10, 97, 22
 (c) 79, 23, 86, 30   (d) 96, 42, 65, 12

17. CROPS
 (a) 89, 95, 11, 75, 20   (b) 67, 77, 32, 87, 34
 (c) 76, 88, 40, 67, 13   (d) 98, 56, 04, 58, 43

18. SENT
 (a) 20, 31, 86, 79   (b) 34, 24, 59, 89
 (c) 13, 03, 66, 85   (d) 42, 17, 78, 96

19. PART
 (a) 75, 21, 89, 96   (b) 66, 14, 88, 57
 (c) 87, 00, 95, 69   (d) 99, 43, 78, 85

20. SPENT
 (a) 13, 66, 25, 86, 96   (b) 20, 75, 30, 98, 57
 (c) 34, 87, 41, 59, 85   (d) 42, 58, 03, 65, 78

21. 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 matrices can be represented first by its row and next by its column, e.g., 'G' can be represented by 04,40 etc. and 'K' can be represented by 56, 75 etc. Similarly, you have to identify the set for the word 'CHILD'.

22.

Matrix-I

	0	1	2	3	4
0	C	D	E	F	G
1	F	G	C	D	E
2	D	E	F	G	C
3	E	F	G	C	D
4	G	C	D	E	F

Matrix II

2

	5	6	7	8	9
5	H	K	L	I	N
6	I	N	H	K	L
7	K	L	I	N	H
8	L	I	N	H	K
9	N	H	K	L	I

(a) 24, 21, 99, 57, 01   (b) 12, 79, 99, 57, 01

(c) 33, 57, 99, 57, 01,   (d) 41, 79, 99, 57, 11

23. **Matrix-I**

	0	1	2	3	4
0	R	H	E	L	I
1	I	E	L	R	H
2	H	L	R	I	E
3	E	R	I	H	L
4	L	I	H	E	R

Matrix-II

	5	6	7	8	9
5	B	S	N	A	D
6	D	N	B	S	A
7	A	B	D	N	S
8	S	D	A	B	N
9	N	A	S	D	B

(a) 58, 02, 13, 01   (b) 85, 42, 31, 14
(c) 68, 20, 13, 32   (d) 85, 02, 44, 30

24. 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 matrices can be represented first by its row and next by its column, e.g., 'F' can be represented by 30, 22, etc. and 'N' can be represented by 97,89, etc. Similarly, you have to identify the set for the given word. "DAKU"

Matrix-I

	0	1	2	3	4
4	A	F	K	P	U
3	F	K	A	U	P
2	P	U	F	K	A
1	K	P	U	A	F
0	U	A	P	F	L

Matrix-II

	5	6	7	8	9
9	D	I	N	S	X
8	X	S	I	D	N
7	N	X	S	I	D
6	S	D	X	N	I
5	I	N	D	X	S

(a) 95, 40, 04, 42   (b) 24, 95, 20, 27
(c) 88, 24, 10, 34   (d) 57, 13, 23, 21

25. A word is represented by 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 matrices can be represented first by its row and next by its column e.g. 'A' can be represented by 40, 01, 31, 32, and 'N' can be represented by 56, 68, 89 etc. Similarly you have to identify the set for the word given below:
SIX-KIDS

Matrix -I

	0	1	2	3	4
4	A	F	K	P	U
3	F	K	A	U	P
2	P	U	F	K	A
1	K	P	U	A	F
0	U	A	P	F	K

3

Matrix –II

	5	6	7	8	9
9	D	I	N	S	X
8	X	S	I	D	N
7	N	X	S	I	D
6	S	D	X	N	I
5	I	N	D	X	S

(a) 86, 87, 99 – 40, 41, 86, 64
(b) 98, 96, 85 – 42, 78, 88, 77
(c) 77, 69, 76 – 22, 95, 28, 31
(d) 65, 55, 67 – 05, 25, 91, 40

ANSWER KEY															
1	(c)	4	(d)	7	(c)	10	(b)	13	(b)	16	(c)	19	(b)	22	(c)
2	(a)	5	(c)	8	(b)	11	(a)	14	(c)	17	(a)	20	(c)	23	(d)
3	(b)	6	(a)	9	(d)	12	(d)	15	(a)	18	(d)	21	(b)	24	(b)

HINTS & EXPLANATIONS

Solutions for I to 5

A	→	00, 14, 21, 33, 42
P	→	01, 12, 23, 34, 40
O	→	02, 13, 20, 31, 44
R	→	03, 10, 24, 32, 41
E	→	04, 11, 22, 30, 43
F	→	55, 67, 78, 86, 99
N	→	56, 68, 79, 85, 97
M	→	57, 66, 75, 89, 98
S	→	58, 69, 76, 87, 95
T	→	59, 65, 77, 88, 96

1. (c)   2. (a)   3. (b)   4. (d)   5. (c)

Solutions for 6 to 10

I	→	00, 12, 21, 33, 44
L	→	01, 13, 24, 30, 42
A	→	02, 14, 20, 31, 43
D	→	03, 10, 22, 34, 41
C	→	04, 11, 23, 32, 40
W	→	55, 66, 77, 88, 99
R	→	56, 65, 78, 89, 97
T	→	57, 68, 79, 86, 95
E	→	58, 69, 75, 87, 96
Y	→	59, 67, 76, 85, 98

6. (a)   7. (c)   8. (b)   9. (d)   10. (b)

Solutions for 11 to 15

E	→	00, 12, 23, 34, 41
H	→	01, 10, 24, 33, 42
J	→	02, 14, 21, 30, 43
O	→	03, 11, 20, 32, 44
A	→	04, 13, 22, 31, 40
L	→	55, 67, 76, 89, 98
F	→	56, 69, 77, 88, 95
S	→	57, 68, 75, 86, 99
K	→	58, 66, 79, 85, 97
T	→	59, 65, 78, 87, 96

11. (a)   12. (d)   13. (b)   14. (c)   15. (a)

Solutions for 16 to 20

A	→	00, 14, 21, 32, 43
S	→	01, 13, 20, 34, 42
U	→	02, 10, 23, 31, 44
E	→	03, 12, 24, 30, 41
O	→	04, 11, 22, 33, 40
C	→	55, 67, 76, 89, 98
R	→	56, 69, 77, 88, 95
T	→	57, 68, 79, 85, 96
P	→	58, 66, 75, 87, 99
N	→	59, 65, 78, 86, 97

16. (b)   17. (a)   18. (d)   19. (b)   20. (c)

21.   (b) C = 00, 12, 24, 33, 41
        H = 55, 67, 79, 88, 96

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I = 58, 65, 77, 86, 99

L = 57, 69, 76, 85, 98

D = 01, 13, 20, 34, 42

∴CHILD=12, 79, 99, 57, 01

22.   (c) S → 56, 68, 79, 85, 97

H→ 01, 14, 20, 33, 42

R → 00, 13, 22, 31, 44

I → 04, 10, 23, 32, 41

23.   (b)

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