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	Α	Р	0	R	Н
1	R	Е	Р	0	Α
2	0	А	E	Р	R
3	E	0	R	А	Р
4	Р	R	А	E	0

Matrix II

		101			
	5	6	7	8	9
5	F	N	М	S	Т
6	Т	М	F	N	S
7	М	S	Т	Ι	N
8	N	F	S	Т	М
9	S	Т	N	М	F
1.	MORT				
	(a) 66,21	32, 77 (1	b) 75,44,0	02,65	
	(c) 57,13	8, 03, 88	(d) 68, 31,	41, 96
2.	FASE				
	(a) 67, 3	3, 95, 43	(b) 56, 21,	59, 11
	(c) 86, 42	2, 77, 22	(d) 99,00,8	7,31
3.	SERAF				
	(a) 69, 04	4, 10, 21,	,88 (b) 87,04,2	4, 42,78
	(c) 76, 4	3, 24, 32,	,99 (d) 58, 30,	32, 44,67
4.	PANT				
	(a) 12,33	8,69,77	(b) 23,43,7	9, 88
	(c) 01, 2	1, 56, 66	(d) 01, 21,	85, 77
5.	TORN				
	(a) 96, 1	3, 24, 69	(b) 77,31,4	2,85
	(c) 65, 2	3, 32, 79	(d) 88, 02,	11,56
	< 10)				

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

MATRIX I

	0	1	2	3	4
0	1	L	А	D	С
1	D	С	1	L	А
2	А	Ι	D	С	L
3	L	А	С	Ι	D
4	С	D	L	А	Ι

Matrix II

	5	6	7	8	9
5	W	R	Т	E	Y
6	R	W	Y	Т	Е
7	E	Y	W	R	Т
8	Y	Т	E	W	R
9	Т	Е	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	Н	J	0	А
1	Н	0	E	А	J
2	0	J	A	E	Н

3	J	Α	0	Н	E
4	Α	Е	Н	J	0

Matrix II

		5	6	7	8	9
	5	L	F	S	Κ	Т
	6	Т	K	L	S	F
	7	S	L	F	Т	K
	8	K	S	Т	F	L
	9	F	Т	K	L	S
11.	JOI	LE:				
	(a)	21, 44,8	9,34	(b) :	30, 11, 6	8, 41
	(c)	14, 33, 9	98, 23	(d) 4	43, 20, 7	6, 13
12.	FA	ГН				
	(a)	69,13, 7	9,24	(b) 9	95, 31, 9	9, 12
	(c)	88,21,87	,42	(d) '	77, 22, 9	6, 33
13.	KH	OLE				
	(a)	66,24,20),76,24	(b)	85, 10, 3	2, 67, 41
	(c)	97,33,12	2,89,34	(d) [′]	79, 43, 0	3, 98, 12
14.	FEA	AST				
	(a)	77, 00, 1	4, 86, 90	5 (b) :	56, 12, 2	2, 69, 65
	(c)	69,23, 3	1,75,87	(c) 8	38, 33, 4	0, 99, 59
15.	LO	HA				
	(a)	98,20,42	2,04 (b)	76, 32, 0	1, 41	
	(c)	67,12,24	,31 (d)	55, 03, 1	1,22	

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

Matrix I

	0	1	2	3	4
0	Α	S	U	E	0
1	U	0	E	S	Α
2	S	А	0	U	E
3	E	U	Α	0	S
4	0	Е	S	А	U

Matrix II

	5	6	7	8	9
5	С	R	Т	Р	Ν
6	Ν	Р	С	Т	R
7	Р	С	R	Ν	Т

	8	1	N	P	K	C
	9	R	Т	N	C	Р
16	TU	NE				
10.	10.	CO 01 7	10 11		05 10 0	
	(a)	68, 31, 7	9,41	(b)	85, 10, 9	1,22
	(c)	79, 23, 8	36, 30	(d) 9	96, 42, 6	5, 12
17.	CR	OPS				
	(a)	89, 95, 1	1, 75, 20) (b)	67, 77, 3	2, 87, 34
	(c)	76, 88, 4	0, 67, 13	3 (d) 9	98, 56, 0	4, 58, 43
18.	SEI	NT				
	(a)	20, 31, 8	86, 79	(b) (34, 24, 5	9, 89
	(c)	13, 03, 6	66, 85	(d) 4	42, 17, 7	'8, 96
19.	PA	RT				
	(a)	75, 21, 8	39, 96	(b) (66, 14, 8	88, 57
	(c)	87, 00, 9	95, 69	(d) 9	99, 43, 7	8, 85
20.	SPE	ENT				
	(a)	13, 66, 2	25, 86, 90	6 (b) 2	20, 75, 3	0, 98, 57
	(c)	34, 87, 4	1, 59, 85	5 (d) 4	42, 58, 0	3, 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'.

$\gamma\gamma$	
LL	

0

		Ι	Matri	x-I	
	0	1	2	3	4
0	С	D	E	F	G
1	F	G	С	D	E
2	D	E	F	G	С
3	E	F	G	С	D
4	G	С	D	Е	F

Matrix II

	5	6	7	8	9
5	Н	K	L	Ι	N
6	Ι	N	Н	K	L
7	K	L	Ι	Ν	Н
8	L	Ι	N	Н	Κ
9	N	Н	K	L	Ι

(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	Н	Е	L	Ι
1	Ι	E	L	R	Н
2	Η	L	R	Ι	Е
3	Е	R	Ι	Η	L
4	L	Ι	Η	Е	R

Matrix-II

	5	6	7	8	9
5	В	S	Ν	А	D
6	D	Ν	В	S	А
7	Α	В	D	Ν	S
8	S	D	А	В	Ν
9	Ν	А	S	D	В

(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	А	F	Κ	Р	U
3	F	Κ	Α	U	Р
2	Р	U	F	Κ	А
1	Κ	Р	U	А	F
0	U	А	Р	F	L

Matrix-II

							-	
		5	6	7	8	9		
	9	D	Ι	Ν	S	Х		
	8	Х	S	Ι	D	Ν		
	7	Ν	Х	S	Ι	D		
	6	S	D	Х	Ν	Ι		
	5	Ι	Ν	D	Х	S		
95	, 40,	04, 42	2	(b) 24,	95,	20,	27
88	, 24,	10, 34	1	(d) 57,	13,	23,	21

25.

(a)

(c)

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	А	F	Κ	Р	U
3	F	Κ	А	U	Р
2	Р	U	F	Κ	Α
1	Κ	Р	U	А	F
0	U	А	Р	F	K

Matrix –II

	5	6	7	8	9
9	D	Ι	Ν	S	Х
8	Х	S	Ι	D	Ν
7	Ν	Х	S	Ι	D
6	S	D	Х	Ν	Ι
5	Ι	Ν	D	Х	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

						A	NSW	ER KE	£Υ						
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	\rightarrow	00, 14, 21, 33, 42
Р	\rightarrow	01, 12, 23, 34, 40
0	\rightarrow	02, 13, 20, 31, 44
R	\rightarrow	03, 10, 24, 32, 41
E	\rightarrow	04, 11, 22, 30, 43
F	\rightarrow	55, 67, 78, 86, 99
N	\rightarrow	56, 68, 79, 85, 97
М	\rightarrow	57, 66, 75, 89, 98
S	\rightarrow	58, 69, 76, 87, 95
Т	\rightarrow	59, 65, 77, 88, 96
1. (c)	2. (a)	3. (b) 4. (d) 5. (c)
Soluti	ons for	6 to 10
Ι	\rightarrow	00, 12, 21, 33, 44
L	\rightarrow	01, 13, 24, 30, 42
A	\rightarrow	02, 14, 20, 31, 43
D	\rightarrow	03, 10, 22, 34, 41
С	\rightarrow	04, 11, 23, 32, 40
W	\rightarrow	55, 66, 77, 88, 99
R	\rightarrow	56, 65, 78, 89, 97
Т	\rightarrow	57, 68, 79, 86, 95
E	\rightarrow	58, 69, 75, 87, 96
Y	\rightarrow	59, 67, 76, 85, 98
6. (a)	7. (c)	8. (b) 9. (d) 10. (b)

Solutions for 11 to 15

Е	\rightarrow	00, 12, 23, 34, 41
Н	\rightarrow	01, 10, 24, 33, 42
J	\rightarrow	02, 14, 21, 30, 43
0	\rightarrow	03, 11, 20, 32, 44
А	\rightarrow	04, 13,22, 31, 40
L	\rightarrow	55, 67, 76, 89, 98
F	\rightarrow	56, 69, 77, 88, 95
S	\rightarrow	57, 68, 75, 86, 99
Κ	\rightarrow	58, 66, 79, 85, 97
Т	\rightarrow	59, 65, 78, 87, 96
11. (a)	12. (d)	13. (b) 14. (c) 15. (a)
Solutio	ns for 1	6 to 20
А	\rightarrow	00, 14, 21, 32, 43
S	\rightarrow	01, 13, 20, 34, 42
U	\rightarrow	02, 10, 23, 31, 44
Е	\rightarrow	03, 12, 24, 30, 41
0	\rightarrow	04, 11, 22, 33, 40
С	\rightarrow	55, 67, 76, 89, 98
R	\rightarrow	56, 69, 77, 88, 95
Т	\rightarrow	57, 68, 79, 85, 96
Р	\rightarrow	58, 66, 75, 87, 99
Ν	\rightarrow	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

I = 58, 65, 77, 86, 99
L = 57, 69, 76, 85, 98
D =01, 13, 20, 34, 42
∴CHILD=12, 79, 99, 57, 01
(c) S \rightarrow 56, 68, 79, 85, 97

22.

 $H \rightarrow 01, 14, 20, 33, 42$ $R \rightarrow 00, 13, 22, 31, 44$ $I \rightarrow 04, 10, 23, 32, 41$ (b)

23.

Direction: Study the following question carefully and choose the right answer.

1. 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 – form 0 to 4 and that 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., 'U' can be represented by 01, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'JUDGE'.

	Matrix - I							Μ	atr	'ix -	· 11	
	0	1	2	3	4			5	6	7	8	9
0	J	U	G	R	Ζ		5	Ε	Μ	D	Ν	0
1	G	R	Ζ	J	U		6	D	Ε	0	Μ	Ν
2	Ζ	J	U	G	R		7	0	Ν	Ε	D	Μ
3	U	G	R	Ζ	J		8	Ν	0	Μ	Ε	D
4	R	Ζ	J	U	G		9	Μ	D	Ν	0	Ε
N 1	2 2	01	06	10	00	,	D	00	20	רב	6 3	01

A. 13, 31, 96, 10, 88 **B.** 00, 30, 56, 31, 99 **C.** 42, 43, 65, 21, 55 **D.** 34, 01, 86, 23, 66

2. 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 – form 0 to 4 and that 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., 'J' can be represented by 01, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'OBJECT'.

Е В M

Μ Ε В Е

8 9

NO Μ 0

Ν

	Matrix - I 0 1 2 3 4 0 P J C T Z 1 C T Z P J				_		Μ	atr	'ix -	·	
	0	1	2	3	4			5	6	7	8
0	Ρ	J	С	Т	Ζ		5	Е	Μ	В	Ν
1	С	Г	Ζ	Ρ	J		6	В	Е	0	Ν
2	Ζ	Ρ	J	С	Т		7	0	Ν	Ε	В
3	J	С	Т	Ζ	Ρ		8	Ν	0	Μ	Ε
4	Т	Ζ	Ρ	J	С		9	Μ	В	Ν	0

A. 67, 78, 00, 66, 31, 11B. 75, 96, 22, 55, 44, 03C. 86, 66, 14, 77, 10, 32D. 98, 57, 43, 86, 30, 40

3. 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 – form 0 to 4 and that 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, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'BEST'.

	N	1at	rix	- 1		 Matrix - II					
	0	1	2	3	4		5	6	7	8	9
0	Ρ	А	G	Т	S	5	Ε	Μ	В	Ν	0
1	G	Т	S	Ρ	А	6	В	Е	0	Μ	Ν
2	S	Ρ	А	G	Т	7	0	Ν	Ε	В	Μ
3	А	G	Т	S	Ρ	8	Ν	0	Μ	Ε	В
4	Т	S	Ρ	А	G	9	Μ	В	Ν	0	Е

A. 78, 99, 04, 10	B. 57, 75, 41, 03
C. 96, 88, 12, 40	D. 89, 55, 31, 32

4. 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 – form 0 to 4 and that 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, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'POWER'.

Matrix - I									
	0	1	2	3	4				
0	Ρ	А	G	R	Ζ				
1	G	R	Ζ	Ρ	А				
2	Ζ	Ρ	А	G	R				
3	А	G	R	Ζ	Ρ				
4	R	Ζ	Ρ	А	G				

	Matrix - II										
	5	6	7	8	9						
5	Ε	W	L	Ν	0						
6	L	Е	0	W	Ν						
7	0	Ν	Ε	L	W						
8	Ν	0	W	Е	L						
9	W	L	Ν	0	Е						

A. 13, 67, 56, 99, 32 **C.** 21, 98, 87, 66, 10

B. 42, 86, 76, 55, 40 **D.** 34, 75, 68, 75, 24 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 I are numbered – form 0 to 4 and that 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, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'SCALE'.

	Matrix - I					 Matrix - II					
	0	1	2	3	4		5	6	7	8	9
0	Ρ	А	С	R	Ζ	5	Ε	Μ	L	Ν	0
1	С	S	Ζ	Ρ	А	6	L	Е	0	Μ	Ν
2	Ζ	Ρ	S	С	S	7	0	Ν	Ε	L	Μ
3	А	С	R	Ζ	Ρ	8	Ν	0	Μ	Е	L
4	S	Ζ	Ρ	А	С	9	Μ	L	Ν	0	Ε

A. 11, 31, 43, 85, 55	B. 22, 44, 30, 65, 99
C. 40, 02, 03, 96, 77	D. 24, 13, 14, 57, 66

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 – form 0 to 4 and that 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, 14, etc. and M can be represented by 56, 68, etc. Similarly, you have to identify the set for the word 'AMPLE'.

Matrix - I									
	0	1	2	3	4				
0	Ρ	А	G	R	Ζ				
1	G	R	Ζ	Ρ	А				
2	Ζ	Ρ	А	G	R				
3	А	G	R	Ζ	Ρ				
4	R	Ζ	Ρ	А	G				

	Matrix - II										
	5	6	7	8	9						
5	Е	Μ	L	Ν	0						
6	L	Е	0	Μ	Ν						
7	0	Ν	Е	L	Μ						
8	Ν	0	Μ	Ε	L						
9	Μ	L	Ν	0	Ε						

A. 01, 56, 34, 78, 89 **C.** 22, 95, 00, 57, 88

B. 14, 68, 21, 97, 99 **D.** 31, 86, 33, 69, 77

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 I are numbered – form 0 to 4 and that 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, 14, etc. and E can be represented by 55, 66 etc. Similarly, you have to identify the set for the word 'ORGAN'.

	Matrix - I 0 1 2 3 0 P A G R 1 G R Z P				
	0	1	2	3	4
0	Ρ	А	G	R	Ζ
1	G	R	Ζ	Ρ	A
2	Ζ	Ρ	А	G	R
3	А	G	R	Ζ	Ρ
4	R	Ζ	Ρ	А	G

	Matrix - II						
		5	6	7	8	9	
	5	Е	Μ	L	Ν	0	
	6	L	Е	0	Μ	Ν	
	7	0	Ν	Ε	L	Μ	
-	8	Ν	0	Μ	Е	L	
ì	9	Μ	L	Ν	0	Ε	

A. 86, 40, 23, 14, 96 **C.** 75, 03, 11, 22, 76 **B.** 98, 03, 44, 22, 58 **D.** 67, 22, 31, 58, 22

Correct Answers:

1	2	3	4	5	6	7
D	В	С	Α	В	С	В

Explanations:

1.

From the option D, we get required word.



Hence, the option D is correct.

From the option B, we get required word.



Hence, the option B is correct.

3.

From the option C, we get required word.



Hence, the option C is correct.

2.

From the option A, we get required word.



Hence, the option A is correct.

5.

From the option B, we get required word.



Hence, the option B is correct.

4.

From the option C, we get required word.



Hence, the option C is correct.

7.



Hence, the option B is correct.