In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

18	24	32
12	14	16
3	?	4
72	112	128

- (A) 1
- (B) 2
- (C) 3
- (D) 4

#### Ans: C

In the first column,  $12 \times 6 = 72$ ;  $18 \div 3 = 3$ .

In the third column,  $16 \times 8 = 128$ ;  $32 \div 8 = 4$ .

In the second column,  $14 \times 8 = 112$ .

So, missing number =  $24 \div 8 = 3$ .

In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

51	11	61
64	30	32
35	?	43

- (A) 25
- (B) 27
- (C) 32
- (D) 37

Ans: B

In the first row, 5 x 1 = 5, 6 x 1 = 6, 5 + 6 = 11.

In the second row, 6 x 4 =24, 3 x 2 = 6, 24 + 6 = 30.

In the third row, 3 x 5 = 15, 4 x 3 = 12.

 $\therefore$  Missing number = 15 + 12 = 27.

In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

1	2	3
11	7	5
120	45	?

- (A) 15
- (B) 16
- (C) 17
- (D) 19

Ans: B

In the first column,  $11^2 - 1^2 = 121 - 1 = 120$ .

In the second column,  $7^2 - 2^2 = 49 - 4 = 45$ .

 $\therefore$  In the third column, missing number = 5<sup>2</sup> - 3<sup>2</sup> = 25 - 9 = 16.

In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

7	4	5
8	7	6
3	3	?
29	19	31

- (A) 3
- (B) 4
- (C) 5
- (D) 6

Ans: C

In the first column,  $29 - 8 = 7 \times 3 = 21$ .

In the second column,  $19 - 7 = 4 \times 3 = 12$ .

Let the missing number in the third column be x.

Then,  $31 - 6 = 5 \times X$  or 5x = 25 or x = 5.

In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

13	12	5
17	15	8
25	24	?
29	21	20

- (A) **5**
- **(B)** 7
- (C) 9
- **(D) 11**

Ans: B

Clearly, (3rd column)<sup>2</sup> + (2nd column)<sup>2</sup> = (1st column)<sup>2</sup>

In the first row,  $5^2 + 12^2 = 13^2$ .

In the second row,  $8^2 + 15^2 = 17^2$ .

Let the missing number in the third row be x.

Then  $x^2 + 24^2 = 25^2$  or  $x^2 + 576 = 625$  or  $x^2 = 49$  or x = 7.

In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

5	6	7
3	4	5
9	10	11
345	460	?

(A) 535

- (B) 577
- (C) 755
- (D) 775
- Ans: B

In the first column,  $3 \times 100 + 5 \times 9 = 345$ .

In the second column,  $4 \times 100 + 6 \times 10 = 460$ .

 $\therefore$  In the third column, missing number = 5 x 100 + 7 x 11 = 577.

Find the missing character in each of the following questions.



- (A) 64
- **(B) 81**
- (C) 100
- (D) 121

Ans: C

Clearly,  $(7+5)^2 = 144$ ;  $(3+4)^2 = 49$ ;  $(5+1)^2 = 36$ . So, missing number =  $(2+8)^2 = 100$ .

#### **Question: 8**

In each of the following questions, a matrix of certain characters is given. These characters

follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

?	13	49
9	17	69
13	11	59

(A) 5

- (B) 9
- (C) 10
- (D) 21

Ans: A

In the second row,  $2 \times 9 + 3 \times 17 = 18 + 51 = 69$ . In the third row,  $2 \times 13 + 3 \times 11 = 26 + 33 = 59$ . Let the missing number in the first row be x. Then,  $2x + 3 \times 13 = 49$  or 2x = 10 or x = 5.

#### **Question: 9**

In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

7B	5C	6B
3C	9B	19A
15A	17A	?

- (A) 10C
- (B) 12C
- (C) 14B
- (D) 16C

Ans: D

In each column, out of the letters A, B and C, each of these must appear once. Along the diagonals, the sum of two numbers is equal to the third number.

 $\therefore$  The missing number will be (7 + 9) i.e. 16 and the letter will be C.

So, the missing character is 16C.

In each of the following questions, a matrix of certain characters is given. These characters follow a certain trend, row wise or column wise. Find out this trend and choose the missing character accordingly.

Ζ	?	S
R	0	?
?	G	С

(A) WJK

- (B) KWT
- (C) WKJ
- (D) JKW

Ans: C

The letter in the second column is three steps behind that in the first column, and the letter in the third column is four steps behind that in the second column.

So, the missing letter in the first row will be three steps

behind Z, which is W.

The missing letter in the third row will be three steps ahead of G. which is J.