EduSahara™ Assignment

Name : Order of Matrix

Chapter : Matrices

Grade : ICSE Grade X

1. The order of matrix $A = \begin{bmatrix} 4 \\ -5 \\ 5 \end{bmatrix}$ is

   (i) 1×3 (ii) 3×1 (iii) 4×1 (iv) 2×1 (v) 3×2

2. The order of matrix $A = \begin{bmatrix} 4 \\ 1 \end{bmatrix}$ is

   (i) 1×1 (ii) 1×2 (iii) 2×1 (iv) 3×1 (v) 2×2

3. The order of matrix $A = \begin{bmatrix} -1 & 3 \end{bmatrix}$ is

   (i) 2×1 (ii) 2×2 (iii) 1×3 (iv) 1×2 (v) 2×3

4. The order of matrix $A = \begin{bmatrix} -1 & 4 & -2 \end{bmatrix}$ is

   (i) 2×4 (ii) 1×4 (iii) 2×3 (iv) 1×3 (v) 3×1

5. The order of matrix $A = \begin{bmatrix} 0 & 3 \\ 0 & -2 \end{bmatrix}$ is

   (i) 3×2 (ii) 2×2 (iii) 2×1 (iv) 2×3 (v) 1×2

6. The order of matrix $A = \begin{bmatrix} -4 & -4 & 4 \\ -3 & 0 & -2 \end{bmatrix}$ is

   (i) 3×2 (ii) 2×4 (iii) 3×3 (iv) 1×3 (v) 2×3

7. The order of matrix $A = \begin{bmatrix} -5 & -2 \\ -5 & -5 \\ 3 & -3 \end{bmatrix}$ is

   (i) 3×2 (ii) 2×3 (iii) 4×2 (iv) 2×2 (v) 3×3

8. The order of matrix $A = \begin{bmatrix} -3 & -5 & 5 \\ 0 & -4 & 3 \\ 0 & -4 & -1 \end{bmatrix}$ is

   (i) 3×2 (ii) 2×3 (iii) 3×4 (iv) 3×3 (v) 4×3

9. A 3×4 matrix has

   a) 3 rows and 4 columns
   b) 7 rows and 4 columns
   c) 4 rows and 3 columns
   d) 3 rows and 12 columns

   (i) {a} (ii) {b,a} (iii) {d,b,a} (iv) {c,a}

10. Which of the following matrices is a 2×1 matrix ?

(i) $\begin{bmatrix} 6 \\ 3 \\ 7 \end{bmatrix}$ (ii) $\begin{bmatrix} 21 \\ 36 \\ 57 \end{bmatrix}$ (iii) $\begin{bmatrix} 5 \\ 6 \end{bmatrix}$ (iv) $\begin{bmatrix} 27 \\ 34 \end{bmatrix}$ (v) $\begin{bmatrix} 94 \end{bmatrix}$

11. Which of the following matrices is a 1×2 matrix ?

(i) $\begin{bmatrix} 839 \end{bmatrix}$ (ii) $\begin{bmatrix} 17 \\ 81 \end{bmatrix}$ (iii) $\begin{bmatrix} 4 \\ 4 \end{bmatrix}$ (iv) $\begin{bmatrix} 87 \end{bmatrix}$ (v) $\begin{bmatrix} 941 \\ 885 \end{bmatrix}$

12. Which of the following matrices is a 2×2 matrix ?

(i) $\begin{bmatrix} 78 \\ 32 \end{bmatrix}$ (ii) $\begin{bmatrix} 25 \\ 32 \\ 76 \end{bmatrix}$ (iii) $\begin{bmatrix} 366 \\ 346 \\ 111 \end{bmatrix}$ (iv) $\begin{bmatrix} 435 \\ 581 \end{bmatrix}$ (v) $\begin{bmatrix} 888 \\ 319 \\ 789 \end{bmatrix}$

13. Which of the following matrices is a 2×3 matrix ?

(i) $\begin{bmatrix} 412 \\ 747 \\ 563 \end{bmatrix}$ (ii) $\begin{bmatrix} 46 \\ 24 \\ 58 \end{bmatrix}$ (iii) $\begin{bmatrix} 2952 \\ 6996 \\ 5771 \end{bmatrix}$ (iv) $\begin{bmatrix} 8974 \\ 7545 \end{bmatrix}$ (v) $\begin{bmatrix} 894 \\ 899 \end{bmatrix}$

14. Which of the following matrices is a 3×2 matrix ?

(i) $\begin{bmatrix} 459 \\ 254 \end{bmatrix}$ (ii) $\begin{bmatrix} 89 \\ 35 \\ 54 \\ 76 \end{bmatrix}$ (iii) $\begin{bmatrix} 73 \\ 12 \\ 58 \end{bmatrix}$ (iv) $\begin{bmatrix} 834 \\ 426 \\ 711 \\ 982 \end{bmatrix}$ (v) $\begin{bmatrix} 225 \\ 784 \\ 131 \end{bmatrix}$

15. Which of the following matrices is a 3×3 matrix ?

(i) $\begin{bmatrix} 6447 \\ 2472 \\ 9728 \\ 9642 \end{bmatrix}$ (ii) $\begin{bmatrix} 688 \\ 997 \\ 455 \end{bmatrix}$ (iii) $\begin{bmatrix} 3359 \\ 4737 \\ 1711 \\ 3559 \end{bmatrix}$ (iv) $\begin{bmatrix} 555 \\ 415 \\ 757 \\ 125 \end{bmatrix}$ (v) $\begin{bmatrix} 2833 \\ 2731 \\ 9448 \end{bmatrix}$

16. Which of the following is a square matrix?

(i) $\begin{bmatrix} 3697 \\ 3396 \\ 9875 \end{bmatrix}$ (ii) $\begin{bmatrix} 688 \\ 436 \\ 723 \\ 913 \end{bmatrix}$ (iii) $\begin{bmatrix} 762 \\ 931 \end{bmatrix}$ (iv) $\begin{bmatrix} 788 \\ 485 \\ 465 \end{bmatrix}$ (v) $\begin{bmatrix} 3696 \\ 1645 \\ 2665 \\ 1818 \\ 4311 \end{bmatrix}$

17. Which of the following is a rectangular matrix?

(i) $\begin{bmatrix} 419 \\ 119 \\ 819 \end{bmatrix}$ (ii) $\begin{bmatrix} 41163 \\ 63758 \\ 63983 \end{bmatrix}$ (iii) $\begin{bmatrix} 5 \end{bmatrix}$ (iv) $\begin{bmatrix} 2555 \\ 6326 \\ 9232 \\ 7847 \end{bmatrix}$ (v) $\begin{bmatrix} 93 \\ 16 \end{bmatrix}$

18. Which of the following is a row matrix

(i) $\begin{bmatrix} 3 & 2 & 1 & 2 \end{bmatrix}$ (ii) $\begin{bmatrix} 7 \\ 6 \\ 9 \end{bmatrix}$ (iii) $\begin{bmatrix} 3 \\ 6 \end{bmatrix}$ (iv) $\begin{bmatrix} 4 \\ 7 \\ 5 \\ 1 \\ 4 \end{bmatrix}$ (v) $\begin{bmatrix} 7 \\ 5 \\ 5 \\ 4 \end{bmatrix}$

19. Which of the following is a column matrix

(i) $\begin{bmatrix} 7 & 7 & 6 & 4 \end{bmatrix}$ (ii) $\begin{bmatrix} 2 & 1 & 8 \\ 5 & 6 & 1 \\ 6 & 7 & 7 \end{bmatrix}$ (iii) $\begin{bmatrix} 1 \\ 2 \\ 6 \\ 1 \end{bmatrix}$ (iv) $\begin{bmatrix} 3 & 4 & 7 \end{bmatrix}$ (v) $\begin{bmatrix} 4 & 4 \end{bmatrix}$

20. If a matrix has 12 elements, what are the possible orders it can have?

(i) $\{1 \times 12, 2 \times 6, 4 \times 3, 6 \times 2, 12 \times 1\}$ (ii) $\{1 \times 12, 3 \times 4, 4 \times 3, 6 \times 2, 12 \times 1\}$

(iii) $\{1 \times 12, 2 \times 6, 3 \times 4, 4 \times 3, 6 \times 2, 12 \times 1\}$ (iv) $\{2 \times 6, 3 \times 4, 4 \times 3, 6 \times 2, 12 \times 1\}$

Assignment Key

1) (ii)	2) (iii)	3) (iv)	4) (iv)	5) (ii)	6) (v)
7) (i)	8) (iv)	9) (i)	10) (iii)	11) (iv)	12) (i)
13) (v)	14) (iii)	15) (ii)	16) (iv)	17) (ii)	18) (i)
19) (iii)	20) (iii)				