01/06/2020 **JESUS AND MARY SCHOOL AND COLLEGE** MODULE-5

**CLASS-12 (MATHS)**

**CHAPTER NAME– MATRICES**

**Note: Please refer to the video prepared for this chapter.**

**WORKSHEET-2**

**Q.1.**Find the inverse of the matrix $\left[\begin{matrix}2&0&-1\\5&1& 0\\0&1& 3\end{matrix}\right]$ if it exists, using elementary transformations.

**Q.2.**Find the inverse of the matrix $\left[\begin{matrix} 1&3&-2\\-3&0&-1\\ 2&1& 0\end{matrix}\right]$ if it exists, using elementary transformations.

**Q.3.**Find the inverse of the matrix $\left[\begin{matrix}1& 2\\2&-1\end{matrix}\right]$ if it exists, using elementary transformations.

**Q.4.**Find the inverse of the matrix $\left[\begin{matrix} 10&-2\\-5& 1\end{matrix}\right] $if it exists, using elementary transformations.

**Q.5.** Find the inverse of the matrix $\left[\begin{matrix} 0&1&2\\1&2&3\\ 3&1&1\end{matrix}\right]$ if it exists, using elementary transformations.

**Q.6.**Find the inverse of the matrix $\left[\begin{matrix}1&-1&0\\2& 5&3\\0& 2&1\end{matrix}\right]$ if it exists, using elementary transformations.

**Q.7.**Using elementary transformations, find the inverse of the matrix: $\left[\begin{matrix} 0&1&2\\1&2&3\\ 3&1&1\end{matrix}\right]$

**Q.8.**Find the inverse of the matrix $\left[\begin{matrix}1&-1\\2& 3\end{matrix}\right]$ if it exists, using elementary transformations.

**Q.9.**Find the inverse of the matrix $\left[\begin{matrix}9&5\\7&4\end{matrix}\right]$ if it exists, using elementary transformations.

**Q.10.**Find the inverse of the matrix $\left[\begin{matrix} 1&3&-2\\-3&0&-5\\ 2&5& 0\end{matrix}\right]$ if it exists, using elementary transformations.

**Note**- **Please do this assignment in your copies. It will be checked when the school re-opens.**

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