

JEE MAIN MATRICES — MULTIPLICATION OF MATRICES AND ITS PROPERTIES — PYQS

Max. Marks: 8
Questions: 2

Section A (MCQ) — 1 question

Q.1 Let M be a 3×3 matrix such that

$$M \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}, \quad M \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 1 \\ 2 \end{bmatrix} \quad \text{and} \quad M \begin{bmatrix} 0 \\ 0 \\ 1 \end{bmatrix} = \begin{bmatrix} -1 \\ 1 \\ 1 \end{bmatrix}.$$

$$M \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 1 \\ 7 \\ 11 \end{bmatrix}, \quad \text{then } x + y + z \text{ equals :}$$

[JEE Main 2026 (Online) 5th April Evening Shift]

- (1) 4 (2) 5 (3) 7 (4) 11

 Scan or tap for the
full solution


Section B (Numerical) — 1 question

Q.2 The number of 3×2 matrices A , which can be formed using the elements of the set $\{-2, -1, 0, 1, 2\}$ such that the sum of all the diagonal elements of $A^T A$ is 5, is _____

[JEE Main 2026 (Online) 24th January Morning Shift]

 Scan or tap for the
full solution


ANSWER KEY

Section A (MCQ) — 1 question

Ques.	1										
Ans.	2										

Section B (Numerical) — 1 question

Ques.	2							
Ans.	312							