Question # 1 of 10 (Start time: 08:24:19 PM) Total Marks: 1
Two vectors $u$ and $v$ are orthogonal to each other if ___________.
Select correct option:
\[
\begin{align*}
& u \cdot v = 0 \\
& u \cdot v = 1 \\
& u + v = 0 \\
& u - v = 0
\end{align*}
\]

Question # 2 of 10 (Start time: 08:25:33 PM) Total Marks: 1
If the columns of a matrix are linearly independent then the matrix is _______.
Select correct option:
invertible \[(A) \text{ is invertible if } A \text{ has linearly independent columns in Matrices.}\]
symmetric
antisymmetric
singular

Question # 3 of 10 (Start time: 08:27:06 PM) Total Marks: 1
If the columns of a matrix are _______ then the matrix is invertible.
Select correct option:
linearly independent \[(A) \text{ is invertible if } A \text{ has linearly independent columns in Matrices.}\]
linearly dependent

Question # 4 of 10 (Start time: 08:28:38 PM) Total Marks: 1
An $n \times n$ matrix $A$ is _______ if and only if $A$ has $n$ linearly independent vectors.
Select correct option:
diagonalizable
singular
not sure
symmetric
scalar

Question # 7 of 10 (Start time: 08:31:46 PM) Total Marks: 1
Two vectors are _______ if at least one of the vector is a multiple of the other
Select correct option:
linearly independent
linearly dependent
Question # 8 of 10 (Start time: 08:32:49 PM) Total Marks: 1
An n x n matrix with n distinct eigen values is diagonalizable.
Select correct option:
**TRUE**

**FALSE**

Page no 402

Question # 9 of 10 (Start time: 08:33:50 PM) Total Marks: 1
2x – 3y = –2 4x + y = 24 The above system has a _____ solution.
Select correct option:
**inconsistent**
many
unique
trivial

Question # 10 of 10 (Start time: 08:35:02 PM) Total Marks: 1
An n x n matrix A is ___ if and only if 0 is not an eigen value of A.
Select correct option:
**invertible**
In invertible Matrix Theorem.. The n × n matrix A is invertible if and only if 0 is not an eigenvalue of A
singular
symmetric
scalar