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1. The linear equation: x + y = 1 has solution/solutions.
Options:
a) Unique
b) Infinite
c) No solution
d) Finite many
Correct answer: a) Unique
2. Which method simultaneously makes the elements above and below the diagonal zero?
Options:
a) Gauss-Jordan Elimination
b) Jacobi's method
c) Gauss-Seidel method
d) Relaxation method
Correct answer: a) Gauss-Jordan Elimination
3. Iterative algorithms can be more rapid than direct methods. (True/False)
Correct answer: True
$\mathcal{L}_{\mathcal{O}}$
4. If n x n matrices A and B are similar, then they have the same eigenvalues (with the same
multiplicities). (True/False)  Correct answer: False
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5. Sparse matrices arise in computing the numerical solution of
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Options:
a) Linear differential equations
b) Ordinary differential equations
c) Non-linear differential equations
d) Partial differential equations
Correct answer: d) Partial differential equations
6. The power method is used to find
Options:
a) The determinant of a matrix
b) The inverse of a matrix
c) The largest eigenvalue and its corresponding eigenvector
d) The eigenvalues of a symmetric matrix
Correct answer: c) The largest eigenvalue and its corresponding eigenvector
7. Which method is not an iterative method?
Options:
a) Gauss-Seidel method
b) Relaxation method
c) Gauss-Jordan elimination method
d) Jacobi's method
Correct answer: c) Gauss-Jordan elimination method
8. In numerical analysis, LU decomposition is used to solve

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#### Options:

- a) Ordinary differential equations
- b) Non-linear equations
- c) Systems of linear equations
- d) Partial differential equations

Correct answer: c) Systems of linear equations

9. The Gauss-Seidel method is an iterative technique for solving

#### Options:

- a) Linear programming problems
- b) Ordinary differential equations
- c) Non-linear equations
- d) Systems of linear equations

Correct answer: d) Systems of linear equations

10. Which of the following is not a type of direct method for solving linear systems?

#### Options:

- a) Gaussian elimination
- b) LU decomposition
- c) Cholesky decomposition
- d) Jacobi's method

Correct answer: d) Jacobi's method

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