

VIVA VOCE QUESTIONS

B.Sc. Physics – 4th Semester (Mathematical Physics)

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Experiment 1: Differential Equations

1. What is a differential equation?
2. What is the order and degree of a differential equation?
3. What is a linear differential equation?
4. Mention one physical system governed by differential equations.

Experiment 2: Matrix Multiplication

1. What is a matrix?
2. What is the condition for matrix multiplication?
3. Is matrix multiplication commutative?
4. Mention one physical application of matrices.

Experiment 3: Eigenvalues and Eigenvectors

1. What is an eigenvalue?
2. What is an eigenvector?
3. State one physical application of eigenvalues.

Experiment 8: Finding nth Roots of a Complex Number

1. What is a complex number?
2. What is meant by modulus and argument?
3. State De Moivre's theorem.

Experiment 9: Square Root of a Complex Number

1. What is a complex number?
2. How is the square root of a complex number obtained?