



## **Mathematics-III Unit-3 Top 10 Most Important Questions (RGPV 2026)**

- 1. Solve the differential equation using Runge-Kutta Fourth Order (RK-4) Method.**
  - 2. Explain Euler Method and solve a first-order differential equation.**
  - 3. Explain Modified Euler Method and compare it with Euler Method.**
  - 4. Explain Milne Predictor-Corrector Method with suitable example.**
  - 5. Explain Adams Predictor-Corrector Method and write its Predictor and Corrector formulas.**
  - 6. Solve a Two-Dimensional Laplace Equation using Finite Difference Method.**
  - 7. Solve a Poisson Equation using Finite Difference Method.**
  - 8. Explain Bender-Schmidt Method for solving One-Dimensional Heat Equation.**
  - 9. Explain Crank-Nicolson Method and compare it with Bender-Schmidt Method.**
  - 10. Explain the Finite Difference Explicit Method for Wave Equation.**
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## **Most Important for 14 Marks**

1. RK-4 Method
2. Laplace Equation

3. Bender-Schmidt Method
4. Crank-Nicolson Method
5. Milne Predictor-Corrector Method

## **Most Important for 7 Marks**

1. Euler Method
2. Modified Euler Method
3. Adams Method
4. Poisson Equation
5. Wave Equation

👉 If you have very little time, prepare **Questions 1, 6, 8, 9, and 4** first. These are the highest-probability Unit-3 questions based on RGPV trends.