

**B. Sc. (HONOURS) FIFTH SEMESTER EXAMINATIONS, 2021
RAMANANDA COLLEGE**

Subject: Computer Science

Course Code: SH/CSC/503/DSE-1

Course ID: 51526

Course Title: Numerical Methods (Practical)

Full Marks: 15

Time: 2 Hrs.

The figures in the margin indicate full marks

- 1. Answer *any one* of the following questions: (15)**
- a) Find the roots of the equation by Regula-Falsi method.**
 - b) Find the roots of the equation by Bisection Method.**
 - c) Find the solution of tridiagonal system using Gauss Thomas method.**
 - d) Find the cubic spline interpolation function.**
 - e) Find the roots of the equation by Newton-Raphson's method.**
 - f) Find the solution of system of equations using Gauss-Seidel method.**
 - g) Solve the boundary value problem using finite difference method.**
 - h) Evaluate the approximate value of finite integrals using Gaussian integration.**