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B.Sc. (Part-III) Examination, 2021 MATHEMATICS

Paper - III

(Programming in 'C' and Numerical Analysis)

Time Allowed : Three Hours

Maximum Marks : 30

Minimum Pass Marks : 10

Note: Attempt all five questions. One question from each

unit is compulsory. All questions carry equal marks.

Unit - I

Q. 1. What do you mean by Flow Charts ? Describe. 6

Or

What do you mean by function ? Describe.

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Unit - II

Q. 2. What do you mean by Interpolation ? Describe. 6

Or

Describe Gauss Quadrature formulas.

Unit - III

Q. 3. Describe Gauss Elimination method. **6**

Or

Describe Householder's method.

Unit - IV

Q. 4. Describe different types of Approximation. **6**

Or

Describe Eigen value problems with suitable

example.

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Unit - V

Q. 5. What do you mean by Monte Carlo methods for

random number generation ? 6

Or

Describe acceptance rejection method.