

(2)

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Enroll No.....

Q.7 Define

- (a) Failure rate
- (b) Hazard rate

Q.8 What are the three primary windows in MATLAB and write their purpose?

MA-104

**M.Tech. (CSE) – I Sem. (Reg./Ex.)
Examination, March.-2021**

Advanced Mathematics

Time: Three Hours

Maximum Marks:70

Note: Attempt any five questions. (Each question carries equal marks)

Q.1 Write short note on Gauss-seidal method.

Q.2 Define fuzzy logic operation of fuzzy sets.

Q.3 a) Solve the Poisson's Equation :

$u_{xx} + u_{yy} = -10(x^2 + 4^2 + 10)$ over the square with sides $x = 0, y = 0, x = y = 3$ with $u = 0$ on the boundary and mesh length 1.

b) Define following

i) FT ii) DFT

Q.4 Define Galerkin's method.

Q.5 Write a short note on Ragligh-Ritz method.

Q.6 Define Stochastic Process and explain classification of stochastic process.