

Question Paper Code : 71436

M.E. DEGREE EXAMINATION, JUNE/JULY 2013.

First Semester

Applied Electronics

MA 9217/MA 908/UMA 9125 — APPLIED MATHEMATICS FOR ELECTRONICS ENGINEERS

(Common to M.E. VLSI Design, M.E. Medical Electronics, M.E. VLSI Design and Embedded Systems and M.E. Bio Medical Engineering)

(Regulation 2009)

Time : Three hours

Maximum : 100 marks

Statistical tables be permitted.

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Find the complement of a fuzzy set $F = \{0.4 \text{ Ram}, 0.6 \text{ Sita}, 0.8 \text{ Jyot}, 0.9 \text{ Raj}\}$
2. Name some applications of fuzzy logic.
3. State the least square method to solve a system of equations in matrix theory.
4. Give the shifter QR algorithm.
5. If X has the probability density function $f(x) = Ke^{-2x}$, $x > 0$, find the value of K and $P[0.5 \leq X \leq 1]$.
6. A continuous random variable X has probability density function $f(x) = 2(1 - x)$, $0 < x < 1$. Find the r^{th} moment about origin.
7. Define dynamic programming.
8. State Bellman's principle of optimality.
9. Write Little's formulae in queueing theory.
10. Give Kendal's notation for representing queueing models.

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Mike Smith



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