

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.

Applications Maths 93702h June 2013

M Carnoy



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Reviewing **Applications Maths 93702h June 2013**: Unlocking the Spellbinding Force of Linguistics

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