(7)

### PART-B

(5×13=65 Marks)

- 11. a) Explain each of the following Fuzzy propositions with an example: (13)
  - i) Unconditional and unqualified propositions.
  - ii) Unconditional and qualified propositions.

(OR)

- b) Explain the two different types of fuzzy quantifiers with examples. (13)
- 12. a) i) Find the canonical basis for the matrix  $A = \begin{bmatrix} 5 & 1 & 0 \\ 0 & 5 & 1 \\ 0 & 0 & 5 \end{bmatrix}$ . (6)
  - ii) Obtain the QR decomposition of the matrix  $A = \begin{pmatrix} 1 & 1 & 0 \\ 1 & 0 & 1 \\ 0 & 1 & 1 \end{pmatrix}$ . (7)
  - b) Obtain the singular value decomposition of the matrix  $A = \begin{bmatrix} -1 & 1 \\ 1 & 0 \\ 1 & 1 \end{bmatrix}$ . (13)
- 13. a) i) Find the moment generating function of Poisson distribution and hence find its mean and variance. (6)
  - ii) The marks obtained by a number of students in a certain subject are approximately normally distributed with mean 65 and standard deviation 5. If 3 students are selected at random from the group, what is the probability that at least 1 of them would have scored above 75?

(OR)

(OR)

- b) i) Derive the MGF of Gamma distribution and hence find its mean and variance.
  - ii) A continuous random variable X has pdf.  $f(x) = \begin{bmatrix} \frac{X}{4} e^{-x/2} & x > 0 \\ 0 & \text{otherwise} \end{bmatrix}$  the r<sup>th</sup> moment about the origin and hence find the first four moments about the origin. (7)
- 14. a) Use dynamic programming to solve Maximize  $z=3x_1+5x_2$  subject to the constraints :  $x_1 \le 4$ ,  $x_2 \le 6$ ,  $3x_2+2x_2 \le 18$  and  $x_1$ ,  $x_2 \ge 0$ . (13)

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K. Selvamramanujam

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# **Table of Contents Anna University Engineering Mathematics Question Paper**

- 1. Understanding the eBook Anna University Engineering Mathematics Question Paper
  - The Rise of Digital Reading Anna University Engineering Mathematics Question Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Anna University Engineering Mathematics Question Paper
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Anna University Engineering Mathematics Question Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Anna University Engineering Mathematics Question Paper
  - Personalized Recommendations
  - Anna University Engineering Mathematics Question Paper User Reviews and Ratings
  - Anna University Engineering Mathematics Question Paper and Bestseller Lists
- 5. Accessing Anna University Engineering Mathematics Question Paper Free and Paid eBooks
  - Anna University Engineering Mathematics Question Paper Public Domain eBooks
  - Anna University Engineering Mathematics Question Paper eBook Subscription Services
  - Anna University Engineering Mathematics Question Paper Budget-Friendly Options

- 6. Navigating Anna University Engineering Mathematics Question Paper eBook Formats
  - o ePub, PDF, MOBI, and More
  - Anna University Engineering Mathematics Question Paper Compatibility with Devices
  - Anna University Engineering Mathematics Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Anna University Engineering Mathematics Question Paper
  - Highlighting and Note-Taking Anna University Engineering Mathematics Question Paper
  - Interactive Elements Anna University Engineering Mathematics Question Paper
- 8. Staying Engaged with Anna University Engineering Mathematics Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Anna University Engineering Mathematics Question Paper
- 9. Balancing eBooks and Physical Books Anna University Engineering Mathematics Question Paper
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Anna University Engineering Mathematics Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Anna University Engineering Mathematics Question Paper
  - Setting Reading Goals Anna University Engineering Mathematics Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Anna University Engineering Mathematics Question Paper
  - Fact-Checking eBook Content of Anna University Engineering Mathematics Question Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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