



INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD
DEPARTMENT OF ELECTRICAL ENGINEERING
TERMINAL EXAMINATION

COURSE NAME	Advance Engineering Mathematics	BATCH	F20
COURSE CODE	EE-501	MAX. MARKS	50
INSTRUCTOR	Prof. Dr. Abdul Jalil	TIME ALLOWED	3 Hrs (+ 3 Hrs)

Note:

- > Use "Advance Engineering Mathematics_Answer_Booklet.Doc" document, read and follow the instructions given inside. Convert your file to a **single PDF** file and upload within the given time limit.
- > You are required to submit the **original answer sheet** to the department as soon as university resumes for students, therefore keep the original answer sheet with you.

Fall 2020 (January 25, 2021)

Q- 1. (4 x 3 = 12) **CLO-03**

a.

- Compute the L^1 and L^2 norm on $[0,1]$ of the functions $f_1(x) = \frac{1}{3} - x$ and $f_2(x) = x - x^2$.
- Verify the triangle inequality for above two functions of part (i) using each norm.

b.

Let $\mathbf{v} = \begin{pmatrix} a \\ b \end{pmatrix}$ and $\mathbf{w} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$. Use the Cauchy-Schwarz inequality to show that

$$\left(\frac{a+b}{2}\right)^2 \leq \frac{a^2 + b^2}{2}$$

c. Write the quadratic form $q(\mathbf{X}) = x_1^2 + x_1x_2 + 2x_2^2 - x_1x_3 + 3x_3^2$ in the form $q(\mathbf{X}) = \mathbf{X}^T \mathbf{K} \mathbf{X}$ for some symmetric matrix \mathbf{K} . Is $q(\mathbf{X})$ positive definite?

d. Explain why $A = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 8 & 12 \\ 3 & 12 & 27 \end{pmatrix}$ is positive definite. If yes find its Cholesky Factorization.

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Table of Contents Advance Engineering Mathematics Paper Solution

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

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

- Interactive and Gamified eBooks

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