Birla Institute of Technology and Science, Pilani

Work Integrated Learning Programmes Division

Cluster Programme - M.Tech. in Data Science and Engg.

II Semester 2018-19

Course Number	DSECF ZC416		
Course Name	Mathematical Foundation for Da	ta Science	
Nature of Exam	Open Book		2
Weightage for grading	40%	# Questions	4
Duration	2 hours and 30 minutes		
Date of Exam	28/09/2019 (10:00 - 12:30)		

Instructions

- All questions are compulsory
- Questions are to be answered in the order in which they appear in this paper and in the page numbers mentioned before each of them.

Pages 2-6

Q1a) Prove or disprove: If S is a finite subset of a vector space V, then the linear span L(S) is the smallest subspace of V containing S. (2)

b) Prove or disprove: There is a linear transformation T : R⁴ → R³ with KerT = {0}.
(2)

c) Prove or disprove: The eigenvectors of $\begin{pmatrix} \cos(\theta) & -\sin(\theta) \\ \sin(\theta) & \cos(\theta) \end{pmatrix}$ are $\begin{bmatrix} i \\ 1 \end{bmatrix}$ and

$$\begin{bmatrix} -i \\ 1 \end{bmatrix}$$
 for $\theta \neq 0, \pi$ (2)

d) Apply Gauss elimination with partial pivoting to solve (4)

$$\begin{pmatrix} 0.02 & 0.01 & 0 & 0 \\ 1 & 2 & 1 & 0 \\ 0 & 1 & 2 & 1 \\ 0 & 0 & 100 & 200 \end{pmatrix} \begin{pmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix} = \begin{pmatrix} 0.02 \\ 1 \\ 4 \\ 800 \end{pmatrix}$$

Pages 7-11

Q2a) Prove or disprove $\lfloor x \rfloor + \lfloor y \rfloor + \lfloor x + y \rfloor \le \lfloor 2x \rfloor + \lfloor 2y \rfloor$ for all real numbers x and y. (2)

b) Draw the graph of the function $f(x) = \left[2\left[\frac{x}{2}\right] + \frac{1}{2}\right]$ (2)

c) Use Warshall's algorithm to find the transitive closure on {a, b, c, d, e} for the relation {(a, b), (a, c), (a, e), (b, a), (b, c), (c, a), (c, b), (d, a), (e, d)}.
(2)

d) A relation R is called circular if aRb and bRc imply that cRa. Show that R is reflexive and circular if and only if it is an equivalence relation. (4)

Pages 12-15

Q3a) Find the number of paths of length 3 between any two adjacent vertices in $K_{3,3}$ (3)

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Table of Contents Mfds Past Papers

- 1. Understanding the eBook Mfds Past Papers
 - The Rise of Digital Reading Mfds Past Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mfds Past Papers
 - 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 Mfds Past Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mfds Past Papers
 - Personalized Recommendations

- Mfds Past Papers User Reviews and Ratings
- Mfds Past Papers and Bestseller Lists
- 5. Accessing Mfds Past Papers Free and Paid eBooks
 - Mfds Past Papers Public Domain eBooks
 - Mfds Past Papers eBook Subscription Services
 - Mfds Past Papers Budget-Friendly Options
- 6. Navigating Mfds Past Papers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mfds Past Papers Compatibility with Devices
 - Mfds Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mfds Past Papers
 - Highlighting and Note-Taking Mfds Past Papers
 - Interactive Elements Mfds Past Papers
- 8. Staying Engaged with Mfds Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mfds Past Papers
- 9. Balancing eBooks and Physical Books Mfds Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mfds Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mfds Past Papers
 - Setting Reading Goals Mfds Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mfds Past Papers
 - Fact-Checking eBook Content of Mfds Past Papers

- 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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