

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY

Department of Energy Science and Engineering
B. Sc. Engineering 2nd Year 1st Term Examination, 2018
Math 2113

(Linear Algebra and Vector Analysis)

Time: 3 Hours.

Full Marks: 210

- N.B. i) Answer any THREE questions from each section in separate scripts.
ii) Figures in the right margin indicate full marks.
iii) Assume reasonable data if any missing.

SECTION – A

- 1(a) What is trivial solution of a linear equation? Find a polynomial that fits the points (1,4), (2,0), and (3,12). 10
- 1(b) Let $A = \begin{bmatrix} 4 & -1 & 1 & 6 \\ 0 & 0 & -3 & 3 \\ 4 & 1 & 0 & 14 \\ 4 & 1 & 3 & 2 \end{bmatrix}$ 12
Find: (i) M_{21} and C_{21} of A (ii) M_{44} and C_{44} of A
Where, M is for minor and C is for co-factor.
- 1(c) Determine for which values of λ the following set of vectors are linearly dependent. 13
 $v_1 = \left(\lambda, -\frac{1}{2}, -\frac{1}{2}\right); \quad v_2 = \left(-\frac{1}{2}, \lambda, -\frac{1}{2}\right); \quad v_3 = \left(-\frac{1}{2}, -\frac{1}{2}, \lambda\right)$
- 2(a) Define rank of a matrix. Find the rank of a matrix B 10
where, $B = \begin{bmatrix} 1 & -1 & 2 & 1 \\ 3 & 0 & 2 & 2 \\ 2 & 1 & -1 & 1 \\ 1 & 0 & 1 & 1 \end{bmatrix}$.
- 2(b) Define subspace of a vector space. Find the basis and dimension of the subspace S defined below \Rightarrow 12
 $S = \{(x, y, z, t) : x + y = z, t = 2y\}$
- 2(c) Find all the eigenvalues and an eigenvector corresponding to largest eigenvalue of the following matrix – 13
 $A = \begin{bmatrix} 1 & 2 & -1 \\ 0 & -2 & 0 \\ 0 & -5 & 2 \end{bmatrix}$
- 3(a) What is Nullity? Find the basis of $N(A)$, where – 10
 $A = \begin{bmatrix} 1 & 1 & -1 \\ 1 & 2 & 3 \\ 4 & 5 & -3 \end{bmatrix}$.
- 3(b) State Cauchy-Schwartz inequality. Verify it for $u = (1, -1, 3)$ and $v = (2, 0, -1)$. 10
- 3(c) Orthonormalize the family of vectors $\{v_1 = (1, 1, 1), v_2 = (0, -1, 1), v_3 = (0, 1, 1)\}$ by using Gram-Schmidt orthonormalize process. Also verify the result for orthogonality and orthonormality. 15

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NASA's Human Space Exploration United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space, 2012

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 - The Rise of Digital Reading Math Out Jsc Ques 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Out Jsc Ques 2014
 - 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 Math Out Jsc Ques 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Out Jsc Ques 2014
 - Personalized Recommendations
 - Math Out Jsc Ques 2014 User Reviews and Ratings
 - Math Out Jsc Ques 2014 and Bestseller Lists
5. Accessing Math Out Jsc Ques 2014 Free and Paid eBooks
 - Math Out Jsc Ques 2014 Public Domain eBooks
 - Math Out Jsc Ques 2014 eBook Subscription Services
 - Math Out Jsc Ques 2014 Budget-Friendly Options
6. Navigating Math Out Jsc Ques 2014 eBook Formats

- ePub, PDF, MOBI, and More
 - Math Out Jsc Ques 2014 Compatibility with Devices
 - Math Out Jsc Ques 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math Out Jsc Ques 2014
 - Highlighting and Note-Taking Math Out Jsc Ques 2014
 - Interactive Elements Math Out Jsc Ques 2014
 8. Staying Engaged with Math Out Jsc Ques 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math Out Jsc Ques 2014
 9. Balancing eBooks and Physical Books Math Out Jsc Ques 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math Out Jsc Ques 2014
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Math Out Jsc Ques 2014
 - Setting Reading Goals Math Out Jsc Ques 2014
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Math Out Jsc Ques 2014
 - Fact-Checking eBook Content of Math Out Jsc Ques 2014
 - 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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