

**Council for Technical Education and Vocational Training  
Office of the Controller of Examinations  
Sanothimi, Bhaktapur**

<b>Program:</b>	<b>Regular/Back Exam-2073, Bhadra/Ashwin Diploma in Civil/Architecture/Mechanical/ Automobile/ Information Technology/ Computer / Electrical/ Electrical &amp; Electronics/Electronics/ Geomatics/Engineering</b>	<b>Full Mark: 80</b>
<b>Year/Part:</b>	<b>I/II (New Course)</b>	<b>Pass Mark:32</b>
<b>Subject:</b>	<b>Math II</b>	<b>Time: 3 hrs.</b>

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*

**Attempt All questions  
Group "A" [3x(5+5)=30]**

1. a) Define Transpose of a matrix. If  $A = \begin{pmatrix} 1 & 2 \\ 3 & 0 \end{pmatrix}$ ,  $B = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix}$ , [1+4=5]  
verify that  $(AB)^T = B^T A^T$ .

b) Prove that [5]

$$\begin{bmatrix} a+b+2c & c & c \\ a & b+c+2a & a \\ b & b & c+a+2b \end{bmatrix} = 2(a+b+c)^3$$

2. a) Show that the line joining the points (1,2,2) and (4,5,6) is [5]  
perpendicular to the line joining (5,-3,4) and (7,-1,1).

b) Find the equation of the plane containing the lines [5]  
through the origin with direction cosines proportional to  
2,1,-2 and 5,2,-3.

3. a) Define absolute value of a complex number. [1+4=5]

If  $\frac{1-ix}{1+ix} = a - ib$ . Prove that  $a^2 + b^2 = 1$

b) Apply De-moiver's theorem to compute the cube roots of [5]  
unity.

**Group "B" [10X5=50]**

4. Solve by using Cramer's Rule or ROW Equivalent Matrix [5]  
method:

$$x+y-z=3$$

$$2y+z=10$$

$$5x-y-2z=-3$$

5. In any  $\Delta ABC$ , Prove by vector method that [5]

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

# Engineering Maths 2 Paper Leaked

**Padhraic Smyth**



## **Engineering Maths 2 Paper Leaked:**

**Engineering** ,1920 *Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications* Tran Khanh Dang,Josef Küng,Tai M. Chung,2022-11-19 This book constitutes the refereed proceedings of the 9th International Conference on Future Data and Security Engineering FDSE 2022 held in Ho Chi Minh City Vietnam during November 23 25 2022 The 41 full papers including 4 invited keynotes and 12 short papers included in this book were carefully reviewed and selected from 170 submissions They were organized in topical sections as follows invited keynotes big data analytics and distributed systems security and privacy engineering machine learning and artificial intelligence for security and privacy smart city and industry 4 0 applications data analytics and healthcare systems and security and data engineering

**Scientific and Technical Aerospace Reports** ,1976 Engineering News ,1880 Civil Engineering Hydraulics Abstracts ,1976 **The future of the UK's strategic nuclear deterrent** Great Britain: Parliament: House of Commons: Defence Committee,2007-03-07 future of the UK s strategic nuclear Deterrent The White Paper ninth report of session 2006 07 Vol 2 Oral and written Evidence *Theoretical Chemical Engineering Abstracts* ,1964 **Wireless World** ,1962 **The Times Index** ,2007 Indexes the Times and its supplements **Australian National Bibliography** ,1978 *Wireless World and Radio Review* ,1953 **Flight** ,1950 **Who's who of British Scientists** ,1970 *Science Abstracts* ,1993 *New Scientist and Science Journal* ,1986-04 **Braby's Commercial Directory of Southern Africa** ,1996 Durban and Surrounding Area Telephone Directory ,1990 *Pers dan wartawan* Mochtar Lubis,1963 42-077 *Engineering Mathematics 2* ,1990 *Level 2 Mechanical Engineering Mathematics* Alec Greer,Robert B. Buchan,Graham William Taylor,1980-01-01

## Unveiling the Magic of Words: A Review of "**Engineering Maths 2 Paper Leaked**"

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<https://socketapi.adit.com/files/Resources/Documents/Zelle%20Ideas.pdf>

### **Table of Contents Engineering Maths 2 Paper Leaked**

1. Understanding the eBook Engineering Maths 2 Paper Leaked
  - The Rise of Digital Reading Engineering Maths 2 Paper Leaked
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Maths 2 Paper Leaked
  - 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 Engineering Maths 2 Paper Leaked
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Maths 2 Paper Leaked
  - Personalized Recommendations
  - Engineering Maths 2 Paper Leaked User Reviews and Ratings
  - Engineering Maths 2 Paper Leaked and Bestseller Lists

5. Accessing Engineering Maths 2 Paper Leaked Free and Paid eBooks
  - Engineering Maths 2 Paper Leaked Public Domain eBooks
  - Engineering Maths 2 Paper Leaked eBook Subscription Services
  - Engineering Maths 2 Paper Leaked Budget-Friendly Options
6. Navigating Engineering Maths 2 Paper Leaked eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Maths 2 Paper Leaked Compatibility with Devices
  - Engineering Maths 2 Paper Leaked Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Maths 2 Paper Leaked
  - Highlighting and Note-Taking Engineering Maths 2 Paper Leaked
  - Interactive Elements Engineering Maths 2 Paper Leaked
8. Staying Engaged with Engineering Maths 2 Paper Leaked
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Maths 2 Paper Leaked
9. Balancing eBooks and Physical Books Engineering Maths 2 Paper Leaked
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Maths 2 Paper Leaked
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Maths 2 Paper Leaked
  - Setting Reading Goals Engineering Maths 2 Paper Leaked
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Maths 2 Paper Leaked
  - Fact-Checking eBook Content of Engineering Maths 2 Paper Leaked
  - 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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