

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/ Back Exam - 2073

Program: Diploma in Civil/ /Electronics/ Electrical **Full Marks: 80**
/ Electrical & Electronics/ Computer / IT **Pass Marks: 32**
Architecture / Mechanical/ Automobile /
Geometrics Engineering (New Course)

Year/Part: I/I

Time: 3 hrs

Subject: Engg. Mathematics-I

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'

[(5+5) x 3 =30]

1. (a) If any triangle ABC. In any ΔABC , prove that:

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

- (b) Prove that $\tan^{-1} x + \tan^{-1} y = \tan^{-1} \frac{(x+y)}{1-xy}$

OR

Find the general solution of $\sec x + \tan x = \sqrt{2}$

2. (a) What are the indeterminate forms?

Evaluate:

$$\lim_{x \rightarrow 1} \frac{\sqrt{2x^2 + 4} - \sqrt{x^2 + 5}}{(x - 1)}$$

- (b) Test the continuity of

$$f(x) = \begin{cases} 3x + 2 & \text{for } x < 1 \\ 7 & \text{for } x = 1 \\ 6x - 1 & \text{for } x > 1 \end{cases} \text{ at } x = 1$$

If the function is not continuous at $x=1$. How can you make it continuous?

3. (a) Derive the equation of straight line in perpendicular form. Find the

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Table of Contents Engineering Mathematics Previous Question Papers

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

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