

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 Mathematics College Question Paper For 2march24

1. Understanding the eBook Mathematics College Question Paper For 2march24
 - The Rise of Digital Reading Mathematics College Question Paper For 2march24
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics College Question Paper For 2march24
 - 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 Mathematics College Question Paper For 2march24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics College Question Paper For 2march24
 - Personalized Recommendations
 - Mathematics College Question Paper For 2march24 User Reviews and Ratings
 - Mathematics College Question Paper For 2march24 and Bestseller Lists
5. Accessing Mathematics College Question Paper For 2march24 Free and Paid eBooks
 - Mathematics College Question Paper For 2march24 Public Domain eBooks
 - Mathematics College Question Paper For 2march24 eBook Subscription Services
 - Mathematics College Question Paper For 2march24 Budget-Friendly Options

6. Navigating Mathematics College Question Paper For 2march24 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics College Question Paper For 2march24 Compatibility with Devices
 - Mathematics College Question Paper For 2march24 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics College Question Paper For 2march24
 - Highlighting and Note-Taking Mathematics College Question Paper For 2march24
 - Interactive Elements Mathematics College Question Paper For 2march24
8. Staying Engaged with Mathematics College Question Paper For 2march24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics College Question Paper For 2march24
9. Balancing eBooks and Physical Books Mathematics College Question Paper For 2march24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics College Question Paper For 2march24
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics College Question Paper For 2march24
 - Setting Reading Goals Mathematics College Question Paper For 2march24
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics College Question Paper For 2march24
 - Fact-Checking eBook Content of Mathematics College Question Paper For 2march24
 - 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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