

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  $\Delta ABC$ , 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

# 1st Semester Engineering Maths Solutions

**Thirumalaisamy P.  
Velavancorresponding**



## **1st Semester Engineering Maths Solutions:**

## Adopting the Tune of Term: An Mental Symphony within **1st Semester Engineering Maths Solutions**

In some sort of taken by monitors and the ceaseless chatter of instantaneous transmission, the melodic splendor and psychological symphony created by the published word usually disappear in to the back ground, eclipsed by the persistent sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **1st Semester Engineering Maths Solutions** a charming literary prize overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that fascinating masterpiece conducts viewers on an emotional trip, well unraveling the hidden songs and profound influence resonating within each cautiously constructed phrase. Within the depths of this emotional review, we shall discover the book is key harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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