

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

# Mathematics College Question Paper For 2march24

**Amédée Auguste GONIN, Izak Jacobus  
Martinus ARCHER**

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to help students with an understanding of mathematics First year students in universities and high school students will find it handy during revisions Questions and answers on mathematics will show you step by step on how to solve mathematical questions Some of the topics covered in this edition include surds quadratic equations indices logarithms vectors functions and relations

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