

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

**Program:** Regular/Back Exam-2073, Bhadra/Ashwin  
 Diploma in Civil/Architecture/Mechanical/  
 Automobile/ Information Technology/ Computer  
 / Electrical/ Electrical & Electronics/Electronics/  
 Geomatics/Engineering  
**Year/Part:** I/II (New Course)  
**Subject:** Math II

**Full Mark: 80**

**Pass Mark: 32**  
**Time: 3 hrs.**

*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  $(AB)^T = B^T A^T$ .

[5]

b) Prove that

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

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  $\triangle ABC$ , Prove by vector method that [5]

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

# Mathematics For Engineering Model Question Paper

**R Sandford**



## **Mathematics For Engineering Model Question Paper:**

## Decoding **Mathematics For Engineering Model Question Paper**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mathematics For Engineering Model Question Paper**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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