

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

Mike Jess



Mathematics For Engineering Model Question Paper:

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

In a time 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 with a celebrated wordsmith, readers set about 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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