

Council for Technical Education and Vocational Training
Office of the Controller of Examinations

Sapthagiri, Bhaktapur

Regular/Back Exam-2078, Magh/Falgun (Scholarship+Regular)
Program: Diploma in Engineering All
Year: I/II (New+Old Course)
Subject: Engineering Mathematics 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.

margin indicate full marks

Group 'A'

Attempt All questions.

[3x(5+5)=30]

1. a) Construct a 3×3 matrix whose elements are given by $a_{ij} = 3i - 2j$. [5]
b) Solve using row equivalent matrix method or Cramer's rule.
$$\begin{aligned} x + y - z &= 3 \\ 2y + z &= 10 \\ 5x - y - 2z &= -3 \end{aligned}$$
2. a) If Z and W are two complex numbers, prove that $|z| + |w| \geq |z + w|$. [5]
b) State and prove De-Moivre's Theorem. [5]
3. a) Using vector method, prove that $\sin(A + B) = \sin A \cos B + \cos A \sin B$. [5]
b) Find the area of the parallelogram determined by the vectors $\vec{i} + \vec{j} + \vec{k}$ and $-2\vec{i} + 3\vec{j} + \vec{k}$. [5]

Group 'B'

Attempt All questions.

[10x5=50]

1. From the following table calculate the coefficient of correlation. [5]

X	4	8	10	2	6
Y	8	7	5	11	9

Cont.....

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L Darling-Hammond



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