

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

Regular/Back Exam-2077, Mangsir (Special Scholarship)

Program: Diploma in Engineering All

Full Marks: 80

Year: I/II (2010, 2013, 2013)

Pass Marks: 32

Subject: Engineering Mathematics II

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.

[16x5=80]

1. State De-Moivre's theorem. Use it to find the square roots of $\frac{1}{2} + \frac{\sqrt{3}}{2}i$.

2. In any ΔABC , show that : $a = b \cos C + c \cos B$, by vector method.

3. Define transpose of a matrix. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ $B = \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix}$. Show that $(AB)^T = B^T A^T$.

4. Prove That: $\begin{vmatrix} a+b+2c & c & c \\ a & b+c+2a & a \\ b & b & c+a+2b \end{vmatrix} = 2(a+b+c)^3$

5. Find Karl pearsons coefficient of Skewness of the following data:

Class:	0-20	20-40	40-60	60-80	80-100
Frequency:	4	12	14	7	3

6. A closed cylindrical can is to be made so that its volume is 52 cm^3 . Find the dimensions if the surface area is to be minimum.

7. Solve by using Cramer's rule or Row equivalent Matrix method:

$$2x - y + z = 3, \quad x + y + z = 6, \quad 4x + 5y - 2z = 8.$$

Cont.....

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