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/	Full Mark: 80
	Automobile/ Information Technology/ Computer / Electrical/ Electrical & Electronics/Electronics/ Geomatics/Engineering	
Year/Part: Subject:	I/II (New Course) Math II	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 $A = \binom{12}{30}$, $B = \binom{21}{12}$, verify that $(AB)^1 = B^1A^1$.			
$\begin{bmatrix} a+b+2c & c \\ a & b+c+2a \end{bmatrix}$	c a	=2(a+b+c)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

5x-y-2z=-3

In any
$$\triangle ABC$$
, Prove by vector method that

$$CosA = \frac{b^2 + c^2 - a^2}{2bc}$$
[5]

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