

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]

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

# Question Paper Diploma 2nd Semester Mathematics

**D Kirk**



## **Question Paper Diploma 2nd Semester Mathematics:**

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Michigan School Moderator, 1899     **Bulletin** Institute of Mathematics and Its Applications, 1995     **Resources in Education**, 1997     Daily Graphic Ransford Tetteh, 2010-07-24     Sessional Papers Great Britain. Parliament. House of Commons, 1909     *School*, 1930     **Nature** Sir Norman Lockyer, 1924     *Complete Book of Colleges* Princeton Review (Firm), 2008 A comprehensive guide that profiles all of the four year colleges in the U S this work is packed with the information that prospective applicants need to know including the details on academics admissions requirements tuition and fees and more     **California Quarterly of Secondary Education**, 1930     *The International Blue Book*, 1911     **The Morning Star and Free Baptist**, 1901     **The Publishers' Trade List Annual**, 1967     World Survey of Education, 1966     *Catalog* Community College of Denver, 2009     **The Mining Journal, Railway and Commercial Gazette**, 1895

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