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

Regular/Back Exam-2073, Bhadra/Ashwin

Program: Diploma in Civil/Architecture/Mechanical/ **Full Mark: 80**
Automobile/ Information Technology/ Computer
/ Electrical/ Electrical & Electronics/Electronics/
Geomatics/Engineering

Year/Part: I/II (New Course) **Pass Mark:32**
Subject: Math 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

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 $(AB)^1 = B^1 A^1$.

b) Prove that **[5]**

$$\begin{bmatrix} a+b+2c & c & c \\ a & b+c+2a & a \\ b & b & c+a+2b \end{bmatrix} = 2(a+b+c)^3$$

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

[Question Paper Diploma 2nd Semester Mathematics](#)

CH Cherryholmes

Question Paper Diploma 2nd Semester Mathematics:

The Paper Industry ,1926 **Elasticity and Toughness** Feng Wei,2021-12-30 This book examines minban teacher policies and their implementation in China between 1949 and 2000 when rural areas were in severe shortage of qualified teachers During this period of time minban teachers made great contributions to education doing the same work as state employed school teachers while receiving much lower salaries due to non official status With solid fieldwork on oral history of minban teachers and policy actors and deep examination of a wealth of policy documents in private and governmental archives the author records the life history of minban teachers the process of minban teacher policies and the interaction between policies and individual strategies in M county pseudonym located in northern Jiangsu province of China The book reveals many interesting and sometimes surprising findings about the characteristics of educational policy implementation in China While China s minban teacher policies have come to an end rural education continues to be a major concern of policymakers and researchers alike The book is an important piece of scholarship for the readers interested in rural education in China and in how state society and culture interact to influence teacher policies and management in the Chinese context **Managing Resources for Effective Technological Manpower Training in Agriculture** Ogugua E. Okafo,A. A. Mpieri,1997 **NTA CUET (UG) General Test Book | 20 Practice Papers (Solved) | Common University Entrance Test Section II | Including Solved Previous Year Question Paper | For Entrance Exam Preparation Book 2023** VK Global Publications Pvt Ltd, About the book Fully aligned with the latest NTA standards and updated syllabus for CUET UG General Test to be held in July 2022 Contains 20 full length practice papers with answers and detailed explanations Covers 5 sections General Knowledge and Current Affairs General Ability Numerical Ability Quantitative Reasoning Logical and Analytical Reasoning **Outcome-Based Science, Technology, Engineering, and Mathematics Education: Innovative Practices** Yusof, Khairiyah Mohd,Azli, Naziha Ahmad,Kosnin, Azlina Mohd,Yusof, Sharifah Kamilah Syed,Yusof, Yudariah Mohammad,2012-06-30 This book provides insights into initiatives that enhance student learning and contribute to improving the quality of undergraduate STEM education Provided by publisher Resources in Education ,2000-04 **The Best 381 Colleges** Robert Franek,2016 Selects three hundred and eighty one of the best schools in the United States based on student feedback and provides information on tuition financial aid housing admission requirements and similar statistics

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