

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.....

Engineering Maths Question Papers And Memo

Michael Hoelscher



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Bulletin of the Atomic Scientists ,1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Scientific and Technical Aerospace Reports** ,1994
Popular Science ,2005-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Setting priorities for publicly funded research** Great Britain: Parliament: House of Lords: Science and Technology Committee,2010-04-14 In its report into how priorities are set for publicly funded research the Science and Technology Committee calls on the Government to make a clear and unambiguous statement setting out their research funding commitments and the periods of time over which those commitments apply **Aeronautical Engineering** ,1991 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Documentary Research** Gary McCulloch,2004-04-30 This up to date examination of how to research and utilise documents analyses texts from the past and present considering sources ranging from personal archives to online documents and including books reports official documents and printed media **Documents, Working Papers - Council of Europe, Parliamentary Assembly** Council of Europe. Parliamentary Assembly,1999 *Students and universities* Great Britain: Parliament: House of Commons: Innovation, Universities, Science and Skills Committee,2009-08-02 Incorporating HC 370 *Engineering* ,1960 **Link** ,1977 **Oceanite** ,1987 *Bookseller and the Stationery Trades' Journal* ,1957 *Transactions* ,1997 **Proceedings**

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