

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur
Regular/ Back Exam - 2073

Program: Diploma in Civil/ /Electronics/ Electrical **Full Marks: 80**
/ Electrical & Electronics/ Computer / IT **Pass Marks: 32**
Architecture / Mechanical/ Automobile /
Geometrics Engineering (New Course)

Year/Part: I/I

Time: 3 hrs

Subject: Engg. Mathematics-I

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'

[(5+5) x 3 =30]

1. (a) If any triangle ABC. In any ΔABC , prove that:

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

- (b) Prove that $\tan^{-1} x + \tan^{-1} y = \tan^{-1} \frac{(x+y)}{1-xy}$

OR

Find the general solution of $\sec x + \tan x = \sqrt{2}$

2. (a) What are the indeterminate forms?

Evaluate:

$$\lim_{x \rightarrow 1} \frac{\sqrt{2x^2 + 4} - \sqrt{x^2 + 5}}{(x - 1)}$$

- (b) Test the continuity of

$$f(x) = \begin{cases} 3x + 2 & \text{for } x < 1 \\ 7 & \text{for } x = 1 \\ 6x - 1 & \text{for } x > 1 \end{cases} \text{ at } x = 1$$

If the function is not continuous at $x=1$. How can you make it continuous?

3. (a) Derive the equation of straight line in perpendicular form. Find the

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mathematics It is designed to help students with an understanding of mathematics First year students in universities and high school students will find it handy during revisions Questions and answers on mathematics will show you step by step on how to solve mathematical questions Some of the topics covered in this edition include surds quadratic equations indices logarithms vectors functions and relations

Mathematical Questions and Solutions, from the "Educational Times"
 W. J. C. Miller, 1866

Prepare for the AFOQT Math Test in 7 Days Reza Nazari, Ava Ross, 2019-08-05 The absolute best book to prepare for the AFOQT Math test quickly! Prepare for the AFOQT Math Test in 7 Days which reflects the 2019 and 2020 test guidelines and topics incorporates the best method and the right strategies to help you hone your math skills overcome your exam anxiety and boost your confidence and do your best to defeat AFOQT Math test quickly This quick study guide contains only the most important and critical math concepts a student will need in order to succeed on the AFOQT Math test Math concepts in this book break down the topics so the material can be quickly grasped Examples are worked step by step to help you learn exactly what to do This AFOQT Math new edition has been updated to duplicate questions appearing on the most recent AFOQT Math tests It contains easy to read essential summaries that highlight the key areas of the AFOQT Math test You only need to spend about 3 5 hours daily in your 7 day period in order to achieve your goal After reviewing this book you will have solid foundation and adequate practice that is necessary to fully prepare for the AFOQT Math Prepare for the AFOQT Math Test in 7 Days is for all AFOQT test takers It is a breakthrough in Math learning offering a winning formula and the most powerful methods for learning basic Math topics confidently Each section offers step by step instruction and helpful hints with a few topics being tackled each day Inside the pages of this comprehensive book students can learn math topics in a structured manner with a complete study program to help them understand essential math skills It also has many exciting features including Content 100% aligned with the 2019 2020 AFOQT test Written by AFOQT Math tutors and test experts Complete coverage of all AFOQT Math concepts and topics which you will be tested Step by step guide for all AFOQT Math topics Dynamic design and easy to follow activities Over 600 additional AFOQT Math practice questions in both multiple choice and grid in formats with answers grouped by topic so you can focus on your weak areas 2 full length practice tests featuring new question types with detailed answers Effortlessly and confidently follow the step by step instructions in this book to prepare for the AFOQT Math in a short period of time Prepare for the AFOQT Math Test in 7 Days is the only book you ll ever need to master Basic Math topics It can be used as a self study course you do not need to work with a Math tutor It can also be used with a Math tutor Ideal for self study as well as for classroom usage Get a copy today and see how fast you will prepare for the test with the AFOQT Math in 7 Days Published By Effortless Math Education www.EffortlessMath.com

Examination Question Papers in Mathematics for Junior Certificate Amedée Auguste Gonin, I. J. M. Archer, 19??

Mathematics, 1994

Question Papers in Commercial Mathematics for Junior Certificate
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Questions on Mathematics Robert Hamilton Pinkerton, 2016-05-23 This

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 Amédée Auguste GONIN, Izak Jacobus Martinus ARCHER, 1971 *Mathematics and Statistics Examination Papers*
 University of St. Andrews. Department of Mathematics, 1995 *Mathematics. Higher Specimen Question Papers and Marking Instructions* Scottish Qualifications Authority, 1998 **Mathematics Papers: Matriculation Examination Questions with Answers. 7th Ed**, 1959 **Mathematical Questions, with Their Solutions** William John Clarke Miller, 1865 **Mathematics Question Papers: Specimen Papers New Syllabus GCE.**, **Mathematics** S. L. Chu (Mathematics teacher), 2024

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