

ANSWER ALL THE QUESTIONS

(100 MARKS)

**QUESTION 1**

Choose the correct answer from the four possible answers supplied.  
Write down only the letter that denotes the correct answer.

1.1 The factorisation of  $x^2 + x - 6$  is:

- (a)  $(x - 2)(x + 3)$
- (b)  $(x - 2)(x - 3)$
- (c)  $(x - 1)(x + 6)$
- (d)  $(x + 1)(x - 6)$

(2)

1.2 The derivative of  $f(x) = 2e^{2x}$  is:

- (a)  $f'(x) = 2e^{2x}$
- (b)  $f'(x) = 4e^{2x}$
- (c)  $f'(x) = 2e^{2x+1}$
- (d)  $f'(x) = 4e^{2x+1}$

(2)

1.3 If  $y = \cos 5x$ , then  $\frac{dy}{dx} =$

- (a)  $-5\sin x$
- (b)  $-5\sin 4x$
- (c)  $-5\sin 5x$
- (d)  $-5\sin 6x$

(2)

1.4 The horizontal tangent that can be drawn to the graph of  $f(x) = 2x^2 + 2$  passes through the point ?

- (a)  $(0; 2)$
- (b)  $(2; 0)$
- (c)  $(2; 2)$
- (d)  $(0; 0)$

(2)

1.5  $\frac{\log_2 32 + \log_2 2}{\log_2 16 - \log_2 2} =$

- (a) 1
- (b) 2
- (c) 3
- (d) 4

(2)

[10]

**QUESTION 2**

2.1 Solve for  $x$ :

2.1.1  $3(x^2 - 4) = 0$

(2)

2.1.2  $3(2^{x+1}) = 24$

(4)

2.2 Solve for  $x$  if  $2\log_{12}(2x + 1) = 24$

(4)

[10]

# N4 Mathematics Answers

**Dr. T.C. Gupta**



## N4 Mathematics Answers:

*Model Answers to Mathematics N4 Papers* D. A. Mackenzie, 1997      **TeeJay SQA National 4 Applications of Mathematics** Thomas Strang, 2020-08-31 Help students to apply their mathematical skills in real life contexts as they learn and develop through TeeJay's fun and accessible approach to SQA National 4 Applications of Maths This book provides hundreds of practice questions with progression and consolidation the core TeeJay philosophy underpinning every exercise and chapter  
Contains three freestanding study areas covering Numeracy Geometry Measure and Finance Statistics

Mathematics 15 Years' Solved Papers For JEE Main & Advanced S. Chand Experts, Our experts have created Mathematics 15 Years Solved Papers for JEE Main and Advanced keeping in mind a distinct pattern emerging 2000 onwards and have covered all previous years questions from 2004 We have chosen solved questions from the year 2004 in order to apprise students of at least two years of subjective type numerical value questions asked in the IIT entrance exam

*Math Tools* Georg Glaeser, 2017-09-13 In this book topics such as algebra trigonometry calculus and statistics are brought to life through over 500 applications ranging from biology physics and chemistry to astronomy geography and music With over 600 illustrations emphasizing the beauty of mathematics Math Tools complements more theoretical textbooks on the market bringing the subject closer to the reader and providing a useful reference to students By highlighting the ubiquity of mathematics in practical fields the book will appeal not only to students and teachers but to anyone with a keen interest in mathematics and its applications

Problems and Solutions in Higher Engg. Math-II Dr. T.C. Gupta, 2007      Mathematics Mark Patmore, Brian Seager, 2006 Written by examiners and experienced teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide

**A Compact & Comprehensive Book of IIT Foundation Maths Class 6** S. K. Gupta & Anubhuti Gangal, Key Concepts have been given at the beginning of each chapter to facilitate thorough revision and recall Contains large number of Solved Examples and Practice Questions

*School Science and Mathematics*, 1918      **Wolf Prize in Mathematics** Shiing-Shen Chern, Friedrich Hirzebruch, 2000

**Current Practices in Quantitative Literacy** Rick Gillman, 2006 Presents a wide sampling of efforts being made on campuses across the country to achieve our common goal of having a quantitatively literate citizenry

**Encyclopaedia of Mathematics** Michiel Hazewinkel, 2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the

whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

*Continuous-Time Random Walks for the Numerical Solution of Stochastic Differential Equations* Nawaf Bou-Rabee, Eric Vanden-Eijnden, 2019-01-08 This paper introduces time continuous numerical schemes to simulate stochastic differential equations SDEs arising in mathematical finance population dynamics chemical kinetics epidemiology biophysics and polymeric fluids These schemes are obtained by spatially discretizing the Kolmogorov equation associated with the SDE in such a way that the resulting semi discrete equation generates a Markov jump process that can be realized exactly using a Monte Carlo method In this construction the jump size of the approximation can be bounded uniformly in space which often guarantees that the schemes are numerically stable for both finite and long time simulation of SDEs **Mathematical**

**Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times".** ,1913

**Junior High School Mathematics** William Ledley Vosburgh, Frederick William Gentleman, Jasper Ole Hassler, 1924

Mathematical Questions and Solutions, from the "Educational Times." ,1913 **Quarterly of Applied Mathematics**

,1957 **Educational Notes and Queries** ,1875 *The Mathematics That Every Secondary School Math Teacher Needs to Know* Alan Sultan, Alice F. Artzt, 2017-07-20 Designed to help pre service and in service teachers gain the knowledge they need to facilitate students understanding competency and interest in mathematics the revised and updated Second Edition of this popular text and resource bridges the gap between the mathematics learned in college and the mathematics taught in secondary schools Highlighting multiple types of mathematical understanding to deepen insight into the secondary school mathematics curriculum it addresses typical areas of difficulty and common student misconceptions so teachers can involve their students in learning mathematics in a way that is interesting interconnected understandable and often surprising and entertaining Six content strands are discussed Numbers and Operations Algebra Geometry Measurement Data Analysis and Probability and Proof Functions and Mathematical Modeling The informal clear style supports an interactive learner centered approach through engaging pedagogical features Launch Questions at the beginning of each section capture interest and involve readers in learning the mathematical concepts Practice Problems provide opportunities to apply what has been learned and complete proofs Questions from the Classroom bring the content to life by addressing the deep why conceptual questions that middle or secondary school students are curious about and questions that require analysis and correction of typical student errors and misconceptions focus on counter intuitive results and contain activities and or tasks suitable for

use with students Changes in the Second Edition New sections on Robotics Calculators Matrix Operations Cryptography and the Coefficient of Determination New problems simpler proofs and more illustrative examples Answers and hints for selected problems provided     Current Index to Journals in Education ,1997     Computational Methods for Flow and Transport in Porous Media J.M. Crolet,2013-03-14 The first Symposium on Recent Advances in Problems of Flow and Transport in Porous Media was held in Marrakech in June 96 and has provided a focus for the utilization of computer methods for solving the many complex problems encountered in the field of solute transport in porous media This symposium has been successful in bringing together scientists physicists hydrogeologists researchers in soil and fluid mechanics and engineers involved in this multidisciplinary subject It is clear that the utilization of computer based models in this domain is still rapidly expanding and that new and novel solutions are being developed The contributed papers which form this book reflect the recent advances in particular with respect to new methods inverse problems reactive transport unsaturated media and upscaling These have been subdivided into the following sections I Numerical methods II Mass transport and heat transfer III Comparison with experimentation and simulation of real cases This book contains reviewed articles of the top presentations held during the International Symposium on Computer Methods in Porous Media Engineering which took place in Giens France in October 1998 All of the presentations and the optimism shown during the meeting provided further evidence that computer modeling is making remarkable progress and is indeed becoming an essential toolkit in the field of porous media and solute transport I believe that the content of this book provides evidence of this and furthermore gives a comprehensive review of the theoretical developments and applications

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