

Instructions: 1) If paper is not visible/clear, please ask for another one.

2) Use of calculator is not allowed.

Section – A (1 mark)

- The domain and range of the real function f defined by $f(x) = \frac{4-x}{x-4}$ is given by
 (A) Domain = $\mathbf{R}$, Range = $\{-1, 1\}$
 (B) Domain = $\mathbf{R} - \{1\}$, Range = $\mathbf{R}$
 (C) Domain = $\mathbf{R} - \{4\}$, Range = $\{-1\}$
 (D) Domain = $\mathbf{R} - \{-4\}$, Range = $\{-1, 1\}$
- If $f(x) = ax + b$, where a and b are integers, $f(-1) = -5$ and $f(3) = 3$, then a and b are equal to
 (A) $a = -3, b = -1$
 (B) $a = 2, b = -3$
 (C) $a = 0, b = 2$
 (D) $a = 2, b = 3$
- If $3 \tan (A - 15^\circ) = \tan (A + 15^\circ)$, $0^\circ < A < 90^\circ$, then $A =$ _____
 (A) $\frac{\pi}{4}$
 (B) $\frac{\pi}{6}$
 (C) $\frac{\pi}{3}$
 (D) $\frac{\pi}{2}$
- The value of $\frac{i^{4n+1} - i^{4n-1}}{2}$ is
 (A) i
 (B) 1
 (C) -1
 (D) none
- $1 + i^2 + i^4 + i^6 + \dots + i^{2n}$ is
 (A) positive
 (B) negative
 (C) 0
 (D) cannot be evaluated
- There are four bus routes between A and B; and three bus routes between B and C. A man can travel round-trip in number of ways by bus from A to C via B. If he does not want to use a bus route more than once, in how many ways can he make round trip?
 (A) 72
 (B) 144
 (C) 14
 (D) 19

Section – B (2 marks)

- Find all pairs of consecutive odd natural numbers, both of which are larger than 12, such that their sum is less than 40.
- Find r , if ${}^5P_r = {}^6P_{r-1}$.
- A bag contains 5 black and 6 red balls. Determine the number of ways in which 2 black and 3 red balls can be selected.
- Convert the following in the polar form:

2paper June Ncs Maths

**Arnold Beckmann, Ulrich
Berger, Benedikt Löwe, John V. Tucker**

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Applied and Industrial Mathematics, Venice—2, 1998 Renato Spigler, 2012-12-06 In this volume I have collected several papers which were presented at the international conference called Venice 2 Symposium on Applied and Industrial Mathematics. Such a conference was held in Venice Italy between June 11 and 16 1998 and was intended as the follow up of the very successful similar event called Venice 1 Symposium on Applied and Industrial Mathematics that was also organized in Venice in October 1989. The Venice 1 conference ended up with a Kluwer volume like this one. I am grateful to Kluwer for having accepted to publish the present volume the aim of which is to update somehow the state of the art in the field of Applied Mathematics as well as in that of the nowadays rather more developed area of Industrial Mathematics. The most of the invited key note speakers contributed to this volume with a paper related to their talk. There are in addition a few significant contributed papers selected on the basis of their quality and relevance to the present time research activities. The topics considered in the conference range from rather general subjects in applied and numerical analysis to more specialized subjects such as polymers and disordered media granular flow semiconductor mathematics superconductors elasticity tomography and other inverse problems financial modeling photographic sciences etc. The papers collected in this volume provide a selection of them. It is clear from the previous list that some attention has been paid to relatively new and emerging fields.

Numerical Computations: Theory and Algorithms Yaroslav D. Sergeyev, Dmitri E. Kvasov, 2020-02-13 The two volume set LNCS 11973 and 11974 constitute revised selected papers from the Third International Conference on Numerical Computations Theory and Algorithms NUMTA 2019 held in Crotone Italy in June 2019. This volume LNCS 11974 consists of 19 full and 32 short papers chosen among regular papers presented at the the Conference including also the paper of the winner Lorenzo Fiaschi Pisa Italy of The Springer Young Researcher Prize for the best NUMTA 2019 presentation made by a young scientist. The papers in part II explore the advanced research developments in such interconnected fields as local and global optimization machine learning approximation and differential equations. A special focus is given to advanced ideas related to methods and applications using emerging computational paradigms.

Maths Handbook & Study Guide Grade 12: Teacher's Guide and Answer Book Kevin Smith, 2014-01-01 Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook. Guidelines for teachers and worked through solutions to all the exercises in the Grade 12 Textbook.

Learning and Intelligent Optimization Roberto Battiti, Mauro Brunato, Ilias Kotsireas, Panos M. Pardalos, 2018-12-31 This book constitutes the thoroughly refereed post conference proceedings of the 12th International Conference on Learning and Intelligent Optimization LION 12 held in Kalamata Greece in June 2018. The 28 full papers and 12 short papers presented have been carefully reviewed and selected from 62 submissions. The papers explore the advanced research developments in such interconnected fields as mathematical programming global optimization machine learning and artificial intelligence. Special focus is given to advanced ideas technologies methods and applications in optimization and

machine learning **Mathematical Optimization Theory and Operations Research: Recent Trends** Anton Ereemeev, Michael Khachay, Yury Kochetov, Vladimir Mazalov, Panos Pardalos, 2024-12-19 This book constitutes the revised selected papers from the 23rd International Conference on Mathematical Optimization Theory and Operations Research MOTOR 2024 held in Omsk Russia from June 30 to July 06 2024 The 26 full papers included in this book were carefully reviewed and selected from 79 submissions These papers have been organized in the following topical sections Mathematical programming Combinatorial optimization Operations research and Machine learning and optimization Computer Science - Theory and Applications Andrei A. Bulatov, Arseny M. Shur, 2013-06-03 This book constitutes the proceedings of the 8th International Computer Science Symposium in Russia CSR 2013 held in Ekaterinburg Russia in June 2013 The 29 full papers presented in this volume were carefully reviewed and selected from 52 submissions In addition the book contains 8 invited lectures The papers are organized in topical sections on algorithms automata logic and proof complexity complexity words and languages and logic and automata **Foreign Relations of the United States** United States. Department of State, 1952 **Annual Report** South Africa. Department of Basic Education, 2016 *The Third Option* Loch K. Johnson, 2022 Introduction The subterranean world of clandestine interventions The forms of covert action A ladder of clandestine escalation A shadowy foreign policy 1947 1960 Murder most foul 1960 1975 A new approach to covert action 1975 2000 The third option in an age of terror 2000 2020 Legal foundations Decision paths and accountability Drawing bright lines ethics and covert action The third option reconsidered Logical Approaches to Computational Barriers Arnold Beckmann, Ulrich Berger, Benedikt Löwe, John V. Tucker, 2006-06-29 This book constitutes the refereed proceedings of the Second International Conference on Computability in Europe CiE 2006 held in Swansea UK June July 2006 The book presents 31 revised full papers together with 30 invited papers including papers corresponding to 8 plenary talks and 6 special sessions on proofs and computation computable analysis challenges in complexity foundations of programming mathematical models of computers and hypercomputers and G del centenary G del s legacy for computability

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- Chapter 2: Essential Elements of 2paper June Ncs Maths
- Chapter 3: 2paper June Ncs Maths in Everyday Life
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- Chapter 5: Conclusion

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