

**GRADE 9 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

Choose and write the correct letter on your answer sheet.

1.1 The constant value in the expression $2x^2 + 3x - 5$ is _____ (3)

- A 5
- B -5
- C 3
- D -3

1.2 How many terms are in the expression $3x^2 + 2x - 5$? _____ (3)

- A 1
- B 2
- C 3
- D 4

1.3 Determine the following two terms in the sequence: _____ (3)

- A 48; 56
- B -48; -56
- C -48; 56
- D 48; -56

1.4 Prime numbers that lie between 8 and 22: _____ (3)

- A 11, 13, 17, 19
- B 11, 17, 19, 23
- C 11, 13, 17, 19
- D 11, 13, 17, 19, 23

1.5 $\sqrt{324}$ is _____ (3)

- A 30
- B 74
- C 18
- D 180

1.6 If $x = 2$, the value of $3x^2 + 4x$ would be: _____ (3)

- A 10
- B 12
- C 14
- D 16

6 x 1 = 6

QUESTION 2: WHOLE NUMBERS & INTEGERS

2.1 Write 345:15 in it's simplest form. _____ (2)

2.2 If 10 contractors can build a house in 10 days. How many contractors, working at the same rate, will be needed to build the house in 4 days? _____ (3)

2.3 John drove 620km in 5 and a half hours. Calculate his average speed. _____ (3)

2.4 Write the number 48 as a product of its prime factors. Write the prime factors in exponential form. _____ (4)

2.5 Calculate the following:

- 2.5.1 $3 \times 10^3 + 4 \times 10^2$ _____ (3)
 - 2.5.2 $3 \times 10^3 + 4 \times 10^2$ _____ (3)
- [16]

QUESTION 3: EXPONENTS

3.1 $5^2 \times \sqrt{5} + 5^2$ _____ (2)

3.2 $5^2 \times 5^3$ _____ (2)

3.3 $\frac{5^2}{5^3}$ _____ (3)

3.4 $\sqrt{5^2}$ _____ (3)

[10]

Maths Paper1 Prelims 2014 Memorandum

Tao Wei



Maths Paper1 Prelims 2014 Memorandum:

Virtual Fundamental Cycles in Symplectic Topology John W. Morgan, Dusa McDuff, Mohammad Tehrani, Kenji Fukaya, Dominic Joyce, 2019-04-12 The method of using the moduli space of pseudo holomorphic curves on a symplectic manifold was introduced by Mikhail Gromov in 1985 From the appearance of Gromov's original paper until today this approach has been the most important tool in global symplectic geometry To produce numerical invariants of these manifolds using this method requires constructing a fundamental cycle associated with moduli spaces This volume brings together three approaches to constructing the virtual fundamental cycle for the moduli space of pseudo holomorphic curves All approaches are based on the idea of local Kuranishi charts for the moduli space Workers in the field will get a comprehensive understanding of the details of these constructions and the assumptions under which they can be made These techniques and results will be essential in further applications of this approach to producing invariants of symplectic manifolds

Handbook of Test Development Suzanne Lane, Mark R. Raymond, Thomas M. Haladyna, 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups

The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for

Scholars This volume contains a remarkable collection of extremely insightful articles on the world's most successful advanced technology agency. Drafted by the leading US experts on DARPA, it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume. It reviews DARPA's unique role in the US innovation system as well as the challenges DARPA and its clones face today. As the American model is being considered for adoption by a number of countries worldwide, this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation.

Prof Charles Wessner, Georgetown University, The US Defense Advanced Research Projects Agency (DARPA) has played a remarkable role in the creation of new transformative technologies revolutionizing defense with drones and precision-guided munitions and transforming civilian life with portable GPS receivers, voice recognition software, self-driving cars, unmanned aerial vehicles, and most famously the ARPANET and its successor, the Internet. Other parts of the US Government and some foreign governments have tried to apply the DARPA model to help develop valuable new technologies. But how and why has DARPA succeeded? Which features of its operation and environment contribute to this success? And what lessons does its experience offer for other US agencies and other governments that want to develop and demonstrate their own transformative technologies? This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives combining to chart an important story from the Agency's founding in the wake of Sputnik to the current attempts to adapt it to use by other federal agencies.

Informative and insightful, this guide is essential reading for political and policy leaders as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others.

Noncooperative Approaches to the Theory of Perfect Competition Andreu Mas-Colell, 2014-05-10

Economic Theory, Econometrics and Mathematical Economics A Series of Monographs and Textbooks

Noncooperative Approaches to the Theory of Perfect Competition focuses on the application of noncooperative approaches to the theory of perfect competition, including Cournot game, no surplus condition, and Nash equilibria. The selection first elaborates on collusive behavior in noncooperative epsilon equilibria of oligopolies with long but finite lives and noncooperative price taking in large dynamic markets. Discussions focus on noncooperative equilibria which support the monopoly allocation, alternative definition of perfect epsilon equilibrium, one period Cournot game, fixed demand case, and replication case. The book takes a look at noncooperative price taking in large dynamic markets, no surplus condition as a characterization of perfectly competitive equilibrium, perfect competition profit criterion, and the organization of economic activity. Topics include profits to individually improving welfare, structure of firms, competitive allocations as no surplus allocations, profits as rents, Walrasian and perfectly competitive equilibrium, and no surplus and core equivalence as alternative characterizations of perfectly competitive equilibrium. The manuscript ponders on Nash equilibria of market games and efficiency properties of strategic market games, as well as commodities agents' assignments, strategic markets, games proper, and full Cournot-Nash equilibria and finiteness and inefficiency. The selection is

a valuable source of data for researchers interested in noncooperative approaches to the theory of perfect competition

Theoretical Aspects of Reasoning About Knowledge Joseph Y. Halpern, 2014-05-12 *Theoretical Aspects of Reasoning About Knowledge* Proceedings of the 1986 Conference focuses on the principles methodologies approaches and concepts involved in reasoning about knowledge The selection first provides an overview of reasoning about knowledge varieties of self reference and pegs and alecs Topics covered include data semantics partial objects and identity circumstance self and causal connection structure of circumstance varieties and limits of self reference problem of logical omniscience and knowledge communication and action The book then explores reasoning about knowledge in artificial intelligence synthesis of digital machines with provable epistemic properties and a first order theory of planning knowledge and action The publication ponders on the consistency of syntactical treatments of knowledge foundations of knowledge for distributed systems knowledge and implicit knowledge in a distributed environment and the logic of distributed protocols Topics include formal syntax and semantics structure of models message based knowledge worlds changing the class of messages implicit knowledge in message based knowledge worlds conservation and implicit knowledge and distributed protocols The selection is a dependable source of data for researchers interested in the theoretical aspects of reasoning about knowledge **A**

Directory of Computer Software Applications ,1979 *Captured Eagles* Frederick A. Johnsen, 2014-10-20 The growth in size lethality and technology of the German Luftwaffe was of concern to some defense planners in the United States before American entry into the war Learning about the Luftwaffe became a significant effort once the conflict broke out in Europe From defectors with German aircraft to battlefield trophies and combat crew reports the race to understand German aero technology took on sometimes heroic proportions After the war German technology infused American aerospace developments in many ways German ribbon parachutes were evaluated for high speed bailouts sweptwing leading edge slat technology benefited the F 86 Sabre overall comprehension of sweptwing benefits to fast jet aircraft was validated pulse jet V1s and supersonic V2 rockets boosted American drone weapon ballistic missile and space exploration efforts In this volume Frederick A Johnsen traces that path of discovery **Catalogue of the Library of the Graduate School of Design,**

Harvard University Harvard University. Graduate School of Design. Library, 1968 **Separation of Flow** Paul K. Chang, 2014-06-28 *Interdisciplinary and Advanced Topics in Science and Engineering Volume 3 Separation of Flow* presents the problem of the separation of fluid flow This book provides information covering the fields of basic physical processes analyses and experiments concerning flow separation Organized into 12 chapters this volume begins with an overview of the flow separation on the body surface as discusses in various classical examples This text then examines the analytical and experimental results of the laminar boundary layer of steady two dimensional flows in the subsonic speed range Other chapters consider the study of flow separation on the two dimensional body flow separation on three dimensional body shape and particularly on bodies of revolution This book discusses as well the analytical solutions of the unsteady flow separation

The final chapter deals with the purpose of separation flow control to raise efficiency or to enhance the performance of vehicles and fluid machineries involving various engineering applications This book is a valuable resource for engineers

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Reviewing **Maths Paper1 Prelims 2014 Memorandum**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Maths Paper1 Prelims 2014 Memorandum**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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