

QUESTION 1: FACTORISE

- 1.1 Factorise the following expression completely:

$$x\left(\frac{2x^2}{x} - \frac{3xy}{x}\right) + y\left(\frac{2xy}{y} - \frac{3y^2}{y}\right) \quad (3)$$

- 1.2 When $f(x) = 3ax^3 + 2x^2 - 7x + 3$ is divided by $2x + 1$ the remainder is $-\frac{a}{2}$.

Determine the value or values of a . (5)

- 1.3 Simplify the following expression:

$$\frac{b}{a+b} + \frac{a}{a-b} + \frac{2ab}{b^2 - a^2} \quad (6)$$

[14]

QUESTION 2: FACTORISE – AUG 18

- 2.1 Simplify the following algebraic fraction:

$$\frac{x^2 - 4}{3x^2 + 4x - 4} \div \frac{x^2 - 4x + 4}{2x^2 - 11x + 14} \times \frac{3x - 2}{6x - 21} \quad (5)$$

- 2.2 When $f(x)$ is divided by $2x - 3$ the remainder is 4.

Determine the value of p if $f(x) = 2x^3 - px^2 + 6x - 5$. (4)

- 2.3 Factorise the following expression completely:
 $ax + 9by - 3ay - 3bx$

(3)

- 2.4 Simplify the following expression:

$$\frac{x + 9x^{\frac{1}{2}}}{x + 7x^{\frac{1}{2}} - 18} \div \left(1 - \frac{2}{x^{\frac{1}{2}}}\right)^{-1} \quad (5)$$

[17]

QUESTION 3: FACTORISE

- 3.1 Factorise the following as far as possible in prime factors:

3.1.1 $5x^4 - 5y^4$

3.1.2 $15x^2y^2 - 25xy^3 - 10y^4$

(2 × 3) (6)

N3 Maths Paper Nov 2014

Kathleen Armour



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Proceedings. 24. Workshop Computational Intelligence, Dortmund, 27. - 28. November 2014 Hoffmann, Frank, Huellermeier, E., 2014-11-20 **(Free Sample) 73 Topic-wise 2025 - 2010 SSC Ganit Previous Year Solved Papers - CGL (Tier I & II), CHSL (Tier I & II), MTS & CPO 6th Edition | 3200+ Mathematics PYQs** Disha Experts, The updated 6th Hindi Edition of the book 73 Topic wise 2025 2010 SSC Ganit Mathematics Previous Year Solved Papers consists of original past solved papers conducted for the major SSC Exams SSC CGL 10 2 CHSL Sub Inspector and Multi Tasking of Past 16 Years from the year 2010 to 2025 The coverage of the papers has been kept RECENT 2010 to 2025 as they actually reflect the changed pattern of the SSC exams The book also includes 2022 25 SSC CGL tier II questions In all there are 73 Question papers covering 3200 MCQs from 2010 to 2025 which have been divided into 14 Topics The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination In the end this book will make the aspirants competent confident enough to crack the uncertainty of success in the Entrance Examination The strength of the book lies in the originality of its question papers and Errorless Solutions **73 Topic-wise 2025 - 2010 SSC Ganit Previous Year Solved Papers - CGL (Tier I & II), CHSL (Tier I & II), MTS & CPO 6th Edition | 3200+ Mathematics PYQs** Disha Experts, The updated 6th Hindi Edition of the book 73 Topic wise 2025 2010 SSC Ganit Mathematics Previous Year Solved Papers consists of original past solved papers conducted for the major SSC Exams SSC CGL 10 2 CHSL Sub Inspector and Multi Tasking of Past 16 Years from the year 2010 to 2025 The coverage of the papers has been kept RECENT 2010 to 2025 as they actually reflect the changed pattern of the SSC exams The book also includes 2022 25 SSC CGL tier II questions In all there are 73 Question papers covering 3200 MCQs from 2010 to 2025 which have been divided into 14 Topics The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination In the end this book will make the aspirants competent confident enough to crack the uncertainty of success in the Entrance Examination The strength of the book lies in the originality of its question papers and Errorless Solutions *67 Topic-wise SSC Ganit Previous Year Solved Papers (2010 - 2023) - CGL (Tier I & II), CHSL (Tier I & II), MTS & CPO 5th Edition | 3000+ Mathematics PYQs* Disha Experts, 2024-03-22 The updated 5th Edition of the Bestselling book 67 SSC Mathematics Previous Year Topic wise Solved Papers 2010 2023 consists of original past solved papers conducted for the major SSC Exams SSC CGL 10 2 CHSL Sub Inspector and Multi Tasking of Past 14 Years from the year 2010 to 2023 The coverage of the papers has been kept RECENT 2010 to 2023 as they actually reflect the changed pattern of the SSC exams The book also includes 2022 23 SSC CGL Tier I Tier II question paper In all there are 67 Question papers covering 3000 MCQs from 2010 to 2023 which have been divided into 14 Topics The solution of each and every

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Handbook on Decision Making Julian Andres Zapata-Cortes, Cuauhtémoc Sánchez-Ramírez, Giner Alor-Hernández, Jorge Luis García-Alcaraz, 2022-09-26 This book presents different techniques and methodologies used to improve the intelligent decision making process and increase the likelihood of success in companies of different sectors such as Financial Services Education Supply Chain Energy Systems Health Services and others The book contains and consolidates innovative and high quality research contributions regarding the implementation of techniques and methodologies applied in different sectors The scope is to disseminate current trends knowledge in the implementation of artificial intelligence techniques and methodologies in different fields such as Logistics Software Development Big Data Internet of Things Simulation among others The book contents are useful for Ph D researchers Ph D students master and undergraduate students of different areas such as Industrial Engineering Computer Science Information Systems Data Analytics and others

South African national bibliography, 1999 Classified list with author and title index

ICT Diffusion and Environmental Sustainability, 2nd edition Muhammad Majeed, Mara Madaleno, Muhammad Tayyab Sohail, 2025-09-16 Recently the adoption of information and communication technologies ICT

has increasingly been recognized as crucial for economic prosperity human development and well being along with sustainable development World Summit on the Information Society WSIS Forum emphasizes the role of ICT adoption in sustainability with due regard to the 2030 Agenda for Sustainable Development The research has largely documented favorable economic outcomes of increasing the use of ICT However the ecological dimensions of ICT have received the least attention in the literature In effect ICT has influenced human life from many perspectives including ecological aspects of life The links of ICT with the environment are rather complex On the one hand ICT growth deteriorates the environment by increasing the production use and disposal of ICT products For instance increasing e waste and larger use of energy in manufacturing cause adverse effects on the environment The life cycle theory of ICT suggests that several stages of the life of ICT result in pollution The life cycle of ICT related products spans over production delivery transport use and disposal On the other hand ICT is considered a solution to reinforce environmental protection mitigate the adverse impacts created in the environment by human activities and address key environmental challenges such as climate change and sustainability This Research Topic aims to invite world class cutting edge research on how individuals businesses societies and governments adopt various types of ICT for enhancing diverse forms of economic and environmental sustainability i e ecological economic social cultural and political Particularly this Research Topic is devoted to addressing scholars from social sciences business studies energy research economics research and environmental fields of research who are willing to combine strong theoretical underpinnings and world class empirical evidence Since the association between ICT diffusion and environmental sustainability is relatively new less focused and evolving there is a great need of understanding how ICT development can be harnessed for a thriving economy that takes care of its environmental impact We welcome submissions on the topics listed below Exploring the role of ICT in green growth prospects Analysing the role of ICT development for environmental sustainability Conceptualizing and exploring the role of ICT in the clean energy transition Analysing the strengths of alternative measures of ICT Analysing the role of smart cities for sustainability concerns ICT diffusion for designing facilitating and fostering sustainable economic performance Internet of things blockchain big data cloud computing and smart technologies for sustainable development

Granular, Fuzzy, and Soft Computing Tsau-Young Lin, Churn-Jung Liao, Janusz Kacprzyk, 2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science ECSS 2009 presented a comprehensive overview of granular computing GrC broadly divided into several categories Granular computing from rough set theory Granular Computing in Database Theory Granular Computing in Social Networks Granular Computing and Fuzzy Set Theory Grid Cloud Computing as well as general issues in granular computing In 2011 the formal theory of GrC was established providing an adequate infrastructure to support revolutionary new approaches to computer data science including the challenges presented by so called big data For this volume of ECSS Second Edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data

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The Top Books of the Year N3 Maths Paper Nov 2014 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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