

MATHEMATICS

2006

Time: 3 hours

Max. Marks: 100

Note: Answer ten questions in all – five questions from Section 'A' Three questions from Section 'B', One question from Section 'C' and the compulsory objective question No.1.

OBJECTIVE (COMPULSORY)

- 1.(a) Fill in the following blanks with the correct answers: (05)
- (i) The _____ coordinate of every point on X-axis is Zero.
 - (ii) If $A = \{a, b, c, d\}$, then $P(A)$ has _____ elements.
 - (iii) $(7 - \sqrt{2})(7 + \sqrt{2}) = \text{_____}$.
 - (iv) If $\log_x 81 = 4$, then $x = \text{_____}$.
 - (v) $\sin \theta \cdot \sec \theta = \text{_____}$.
- (b) Select the correct answer for each from the given brackets: 5
- (i) $\tan 60^\circ = \text{_____}$ $\left(\frac{1}{\sqrt{3}}, 1, \sqrt{3} \right)$
 - (ii) $x^4 + 64$ can be made a perfect square by adding _____.
($8x^2, 4x^2, 16x^2$)
 - (iii) The sum of 5 observations is 125, Its mean = _____.
(25, 50, 625)
 - (iv) The line which meets a circle at only one point is called a _____. (radius, tangent, diameter).
 - (v) An angle inscribed in a semi-circle is a/an _____ angle. (right, acute, obtuse)

SECTION 'A'

- 2.(a) If $U = \{x \mid x \in N \text{ and } x \leq 10\}$, $A = \{2, 3, 5, 7\}$, $B = \{2, 4, 6, 8, 10\}$, verify that $(A \cup B)^c = A^c \cap B^c$. (05+05)
- (b) If $A = \{a, b\}$, $B = \{2, 3\}$ and $C = \{3, 4\}$, find the value of $A \times (B \cup C)$
- 3.(a) Simplify: $\left(\frac{x^a}{x^b} \right)^{a+b} \cdot \left(\frac{x^b}{x^c} \right)^{b+c} \div 4(x^c \cdot x^a)^{a+c}$ (05)
- (b) Find the value of $x^3 - \frac{1}{x^3}$ when $x - \frac{1}{x} = -4$ (05)
4. Factorise any Four of the following: (10)
- (i) $ax^3 + ax^2 - bx^2 - bx - cx - c$
 - (ii) $x^2y^2 - 16xy + 64$
 - (iii) $x^2 - x - 2y + 8y^2$
 - (iv) $x^4 + 64$
 - (v) $x^3 - x^2 + 2$
 - (vi) $27a^3 - 64b^3 - 1 - 36ab^2$
- 5.(a) If $A = \begin{bmatrix} 6 & 2 \\ 4 & 3 \end{bmatrix}$, find A^{-1} and verify that $A \cdot A^{-1} = I$. (05)
- (b) If $x^2 + \frac{1}{x^2} = p = 2$ and $x^2 - \frac{1}{x^2} + q = 3$, then find the relation free from 'x' (05)
6. Find the solution set of the following equations graphically (find four ordered pairs for each equation.) (10)
- $3x - 2y = 7$

Max Papers Mathematics 2006

Lauren Gardner



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Higher Maths: Past paper solutions 2007/08 edition Steven O'Hagan, 2007 GCE O Level Examination Past Papers with Answer Guides: Maths India Edition Cambridge International Examinations, 2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme written by CIE Principal *TARGET SNAP 2017 (Past Papers 2005 - 2016) + 5 Mock Tests - 9th Edition* Disha Experts, 2017-09-01 TARGET SNAP 2017 Past 2005 2016 5 Mock Tests contains the detailed solutions of SNAP Question Papers from 2005 to 2016 The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP As the pattern of SNAP is changing every year so different patterns have been incorporated in the Mock Tests *TARGET SNAP 2019 (Past Papers 2005 - 2018) + 5 Mock Tests 11th Edition* Disha Experts, 2019-08-04 *TARGET SNAP 2018 (Past Papers 2005 - 2017) + 5 Mock Tests 10th Edition* Disha Experts, 2018-11-19 TARGET SNAP 2018 Past 2005 2017 5 Mock Tests contains the detailed solutions of SNAP Question Papers from 2005 to 2017 The book also contains 5 Mock tests designed exactly as per the latest pattern of SNAP The book also contains a General Awareness Question Bank containing 100 MCQ s involving current issues similar to the ones asked in the actual exam As the pattern of SNAP is changing every year so different patterns have been incorporated in the Mock Tests *TARGET SNAP 2021 (Past Papers 2005 - 2020) + 5 Mock Tests 13th Edition* Disha Experts, 2020-07-01

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Teaching Mathematics in the Secondary School Paul Chambers, Robert Timlin, 2019-02-25 This fully updated third edition looks at the fundamentals of mathematics teaching how to plan lessons and assess learning and how to promote an

inclusive approach in the classroom Key new features include Updated content reflecting the 2014 National Curriculum in England the Teachers Standards and revised requirements for GCSE and A level mathematics Updated Evidence from research features highlighting developments in the field An expanded section on mathematical misconceptions New coverage on teaching for mastery

Disha's Rapid General Knowledge 2019 for Competitive Exams Disha Experts, 2018-02-06 Disha's Rapid General Knowledge for Competitive Exams is the quickest way to Brush Up your General Knowledge for the Upcoming Competitive Exams The book presents a panoramic view of India and the World along with History Polity Geography Environment Economy General science art and culture sports The text is presented in the form of Mind Maps Infographics Charts Tables for better retention

Standards-Driven Math Vocabulary Ranking Nathaniel Rock, 2005-08 A textbook and classroom supplement for students parents teachers and administrators who need better options for math intervention classes ranging in difficulty from pre algebra to geometry Included are more than 750 middle school and high school math vocabulary words ranked in order from easiest to hardest for maximum standards driven informed intervention instruction

Mathematics Workshop Proceedings of the 8th International Conference on Intelligent Environments Juan A. Botía, Hedda Schmidtke, Tatsuo Nakashima, Mohammad R. Al-Mulla, Juan Carlos Augusto, Asier Aztiria, Matthew Ball, Victor Callaghan, Diane J. Cook, James Dooley, John O' Donoghue, Simon Egerton, Pablo A. Haya, Miguel J. Hornos, Eduardo Morales, Juan Carlos Orozco, Otniel Portillo-Rodriguez, Alejandro Rodrigues-González, Oscar Sandoval, Paolo Tripicchio, Minjuan Wang, Victor Zamudio, 2012 Intelligent environments IE play an increasingly important role in many areas of our lives including education healthcare and the domestic environment The term refers to physical spaces incorporating pervasive computing technology used to achieve specific goals for the user the environment or both This book presents the proceedings of the workshops of the 8th International Conference on Intelligent Environments IE 12 held in Guanajuato Mexico in June 2012 The workshops which make up the conference range from regular lectures to practical sessions They provide a forum for scientists researchers and engineers from both industry and academia to engage in discussions on newly emerging or rapidly evolving topics in the field Topics covered in the workshops include intelligent environments supporting healthcare and well being artificial intelligence techniques for ambient intelligence large scale intelligent environments intelligent domestic robots intelligent environment technology in education multimodal interfaces applied in skills transfer healthcare and rehabilitation the reliability of intelligent environments and improving industrial automation using intelligent environments IE can enrich user experience better manage the environment's resources and increase user awareness of that environment This book will be of interest to all those whose work involves the application of intelligent environments

Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack Dongarra, Konrad Karczewski, Jerzy Wasniewski, 2008-05-29 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Parallel Processing and Applied Mathematics PPAM 2007 held in Gdansk Poland in September 2007 The 63 revised full papers of the main

conference presented together with 85 revised workshop papers were carefully reviewed and selected from over 250 initial submissions The papers are organized in topical sections on parallel distributed architectures and mobile computing numerical algorithms and parallel numerics parallel and distributed non numerical algorithms environments and tools for as well as applications of parallel distributed grid computing evolutionary computing meta heuristics and neural networks The volume proceeds with the outcome of 11 workshops and minisymposia dealing with novel data formats and algorithms for dense linear algebra computations combinatorial tools for parallel sparse matrix computations grid applications and middleware large scale computations on grids models algorithms and methodologies for grid enabled computing environments scheduling for parallel computing language based parallel programming models performance evaluation of parallel applications on large scale systems parallel computational biology high performance computing for engineering applications and the minisymposium on interval analysis

Mathematical Treatment of Nanomaterials and Neural Networks Jia-Bao Liu,Muhammad Javaid,Shaohui Wang,Jinde Cao,2021-12-03

PISA 2012 Assessment and Analytical Framework Mathematics, Reading, Science, Problem Solving and Financial Literacy OECD,2013-02-11 This book presents the conceptual framework underlying the fifth cycle of PISA which covers reading science and this year s focus mathematical literacy along with problem solving and financial literacy

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,2007

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