

**Mathematics**

*Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.*

**Time: 3 hrs.**

**Full Marks: 100**

**Pass Marks: 35** (For partial students only)

**Attempt all questions.**

**Group 'A'**

**5 × 3 × 2 = 30**

1. a. Find the truth value of the biconditional statement of  $p$  and  $q$  where  $p$  represents '2 is an even number' and  $q$  represents '4 is an even number'.  
b. If  $f: \mathbb{R} \rightarrow \mathbb{R}$  be defined by  $f(x) = 2x - 3$ , find  $f^{-1}$   
c. Test the even or odd nature and symmetricity of the function  $y = 8x^2$
2. a. Express  $\tan^{-1}x$  in terms of inverse of sin function.  
b. Prove by mathematical induction:  $1 + 3 + 5 + \dots + (2n - 1) = n^2$   
c. Find the adjoint of the matrix  $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve:  $3x + 2y + 9 = 0$ ,  $2x - 3y + 6 = 0$   
b. Express  $\sqrt{3} + i$  in polar form.  
c. If one root of the equation  $ax^2 + bx + c = 0$  be twice the other, show that  $2b^2 = 9ac$
4. a. Find the equation of the straight line that has  $y$ - intercept '2' and is parallel to  $4x - 8y + 3 = 0$   
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.  
c. Evaluate :  $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

**Contd...**

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*22 Topic-wise CTET Paper 2 Mathematics& Science Previous Year Solved Papers (2024 - 2011) Class 6 - 8 Teachers | Child Development & Pedagogy, English & Hindi Language* Disha Experts,2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 2 Mathematics Science Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III Science has 16 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam **Federal Register** ,2013-09 **ICTES 2018** Robbi Rahim,Kadek Suranata,Ifdil Ifdil ,Itsar Bolo Rangka,2019-03-13 The technical program of The First ICTES 2018 consisted of 114 full papers Aside from the high quality technical paper presentations we also held workshop and clinic manuscript that was carried out before the main track aims to strengthen the ability to write scientific publications Coordination with the steering chairs Dr Kadek Suranata S Pd M Pd Kons and the members of organizing committee is essential for the success of the conference We sincerely appreciate all the Advisory Boards for the constant support and guidance It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference In particular the Scientific Committee led by Cand Dr Robbi Rahim M Kom have completed the peer review process of technical papers and made a high quality technical program We are also grateful to Students Conference chairs were leading by Ida Ayu Made Diah Paramiswari for their support and all the authors who submitted their papers to the First ICTES 2018 We strongly believe that ICTES conference provides a good forum for all academicians researchers and practitioners to discuss all Educational science and technology aspects that are relevant to issues and challenge for sustainability in the 4th industrial revolution We also expect that the future ICTES conference will be as successful and stimulating as indicated by the contributions presented in this volume **Official Gazette** Philippines,2013 **Australian Education Index** ,1980 **Teaching Mathematics Creatively** Linda Pound,Trisha Lee,2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the

numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom Mind the gap: To what extent do social, economic, and psychological factors explain underperformance in achievements assessments? Identifying interventions to narrow the gap Marcos Cupani, Ana E. Azpilicueta, Jose Juan Gongora, Sebastian Urquijo, 2023-10-06 Advanced Data Mining and Applications Weitong Chen, Lina Yao, Taotao Cai, Shirui Pan, Tao Shen, Xue Li, 2022-11-23 The two volume set LNAI 13725 and 13726 constitutes the proceedings of the 18th International Conference on Advanced Data Mining and Applications ADMA 2022 which took place in Brisbane Queensland Australia in November 2022 The 72 papers presented in the proceedings were carefully reviewed and selected from 198 submissions The contributions were organized in topical sections as follows Finance and Healthcare Web and IoT Applications On device Application Other Applications Pattern Mining Graph Mining Text Mining Image Multimedia and Time Series Data Mining Classification Clustering and Recommendation Multi objective Optimization Augmentation and Database and Others

**Innovative Process Development in Metallurgical Industry** Vaikuntam Iyer Lakshmanan, Raja Roy, V.

Ramachandran, 2015-10-26 This book describes the phases for innovative metallurgical process development from concept to commercialization Key features of the book include Need for process innovation Selection and optimization of process steps Determination of the commercial feasibility of a process including engineering and equipment selection Determination of the environmental footprint of a process Case study examples of innovative process development **Special Papers**, 1934

*Crust-Mantle and Lithosphere-Asthenosphere Boundaries* Gianluca Bianchini, Jean-Louis Bodinier, Roberto Braga, Marjorie Wilson, 2017-05-10 This 10 chapter volume encompasses contributions from a wide spectrum of Earth science disciplines including geophysics geodynamics geochemistry and petrology to provide an overview of the nature and evolution of the crust mantle and lithosphere asthenosphere boundaries in different tectonic settings combining studies that exploit different types of data and interpretative approaches The integration of geochemical geophysical and geodynamic data sets and their interpretation provides a state of the art summary of current understanding and will serve as a blueprint for future research activities

**Handbook of Motivation at School** Kathryn R. Wentzel, David B. Miele, 2016-02-19 The second edition of the Handbook of Motivation at School presents an integrated compilation of theory and research in the field With chapters by leading experts this book covers the major theoretical perspectives in the field as well as their application to instruction learning and social adjustment at school Section I focuses on theoretical perspectives and major constructs Section II on contextual and social influences on motivation and Section III on new directions in the field This new edition will have the same popular organizational structure with theories at the beginning It will also include new chapters that cover motivation as it relates to identity culture test anxiety mindfulness neuroscience parenting metacognition and regulatory focus

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in the underbody of the vehicle 7 loosen the lower alternator support bolt 8

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web nov 5 2017 i procrastinated to 110k but i m a terrible person i think hyundai recommends 80k as the time to change the belt get it into a garage asap more editing i was looking at incorrect data recommended timing belt service is 75 000 miles and now i m seeing another thing that says 120 000 miles for non severe driving conditions you know what

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web mar 23 2022 before positioning the new one you must remove all the tensioning rollers and the water pump place the new water pump mount the new tension rollers pay attention to the location of each one mount the new distribution of your hyundai ix35 by respecting the markers tension the belt as indicated by the manufacturer s data

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web dec 17 2018 at the very least the mechanic servicing the vehicle should inspect it for wear and tear manufacturers usually recommend an interval of around 100 000km or roughly five years on average for the replacement of the timing belt after a number of unexpected breakages holden recommended replacement at 60 000km intervals rather than the

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web in this video we run through changing the timing belt on a 2006 2011 hyundai getz with 1 4l g4ee or 1 6l g4ed 4 cylinder petrol engines these engines a

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web labor on most timing belts is between 3 5 hours putting your total cost between 400 1 000 remember do not opt for a just the belt replacement while the cost is cheaper the chances of further failure increase significantly

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web mar 23 2022 place the new water pump install the new tension rollers pay attention to the location of each one install the new distribution of your hyundai getz by respecting the markers tension the belt according to the manufacturer s info put the rest of it back together check that the engine unit is running properly

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items to replace at timing belt replacement time hyundai forums - Jun 17 2023

web 1 jun 25 2013 hi i have a 1.6 litre getz with a g4ed engine that has done just over 89 000km i am going to have the timing belt replaced within the next week or so in the interest of long term reliability i want to take the opportunity to replace these items along with the timing belt tensioner idler water pump thermostat

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web jul 12 2020 during timing belt replacement in getz 2004 idler threads were damaged a fix is presented in the video

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web may 27 2021 check your owner's manual it pays to know which kind of engine you have and the recommended replacement intervals what is a timing belt how can you tell a timing belt needs to be replaced how often should a timing belt be replaced how much does diy timing belt replacement cost how much does professional timing

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web dec 13 2018 your timing belt should be replaced every 50 000 70 000 miles depending on your car's make and model also make sure you understand if your engine is an interference engine or a non interference engine in an interference engine the valves and piston share the same airspace and the timing belt keeps them from touching

hyundai getz timing belt replacement costs repairs autoguru - Feb 13 2023

web while the cost of having your hyundai getz timing belt replaced can be a bit of a shock it's a lot cheaper than having to replace your engine due to a failure the average timing belt replacement cost starts around the 500 mark and can increase to over 1500 if removal of other engine components is required to gain access to the timing belt

when to change the timing belt on hyundai getz - May 16 2023

web here are the steps to follow to replace the timing belt loosen the tensioner roller to loosen the belt release the timing belt remove all the rollers and the water pump tension the strap following the recommended tension using a timing belt monitor run the engine manually which corresponds to 4 city revolutions

**hyundai cambelt change timing belt replacement** - Oct 09 2022

web the cost to change a timing belt should not vary from the cost to change a cambelt as they are literally the same thing so if you want to know how much to change a timing belt you can use the form at the top of this page to get a quote for a new timing belt if you want to replace timing belt and want to find out the timing belt change cost