

Model Question for HSC Examination 2015

Class XI

(English Version)

Subject : Higher Mathematics 1st Paper (Theoretical)

Time : 3 Hours

Full Marks – 75

Group – A : Algebra

(Answer any three questions)

3×5=15

1. It $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 0 & 3 \\ 1 & -1 & 1 \end{bmatrix}$ then find $A^3 - 2A^2 + A - 2I$
2. It $A = \begin{bmatrix} 2 & 1 \\ -5 & -4 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -1 \\ -1 & 1 \end{bmatrix}$ and $B =$ then find $(AB)^{-1}$
3. Prove that $\begin{vmatrix} 1+a^2-b^2 & 2ab & -2b \\ 2ab & 1-a^2+b^2 & 2a \\ 2b & -2a & 1-a^2-b^2 \end{vmatrix} = (1+a^2+b^2)^3$
4. Prove that $\begin{vmatrix} x^2 & yz & zx+x^2 \\ x^2+xy & y^2 & zx \\ xy & y^2+yz & z^2 \end{vmatrix} = 4x^2y^2z^2$
5. Solve by determinant method.
 $x + y - z = 3$
 $2x + 2y + z = 10$
 $3x - y - 7z = 1$

Group – B : Trigonometry

(Answer any four questions)

4×5=20

6. Draw the graph of $y = \sin 3x$ where $0 < x < \pi$
7. Draw the graph of $y = \cos^2 x$ where $-\pi \leq x \leq \pi$.
8. If $A + B < 90^\circ$ then prove that by geometric method
 $\cos(A+B) = \cos A \cos B - \sin A \sin B$.
9. If $\tan \beta = \frac{n \sin \alpha \cos \alpha}{1 - n \sin^2 \alpha}$ then prove that $\tan(\alpha - \beta) = (1 - n) \tan \alpha$
10. If $A \neq B$ and $\sin A + \cos A = \sin B + \cos B$ then show that $A + B = \pi/2$
11. Show that $16 \cos \frac{2\pi}{15} \cos \frac{4\pi}{15} \cos \frac{8\pi}{15} \cos \frac{14\pi}{15} = 1$

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Hsc 2015 Math Suggestion

Donna Kerr, Sandra Wilson



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Changing Jobs Mike Quigley, Jim Chalmers, 2017-09-23 An essential guide to the future of work in Australia For many Australians rapid progress in artificial intelligence robotics and automation is a growing anxiety What will it mean for jobs What will it mean for their kids futures More broadly what will it mean for equality in this country Jim Chalmers and Mike Quigley believe that bursts in technology need not result in bursts of inequality that we can combine technological change with the fair go But first we need to understand what s happening to work and what s likely to happen This is a timely informative and authoritative book about the changing face of work and how best to approach it at both a personal and a political level Jim Chalmers is a Labor MP and Shadow Minister for Finance Before being elected to parliament Jim was the chief of staff to the Deputy Prime Minister and Treasurer He has a PhD in political science and international relations and is the author of *Glory Daze* 2013 Mike Quigley spent 36 years with the major global telecommunications company Alcatel including three years as its president and COO He was the first employee of the Australian NBN company and its CEO for four years He is now adjunct professor in the School of Computing and Communications at UTS

Excel Senior High School Donna Kerr, Sandra Wilson, 2004

Unlocking the Power of Teacher Feedback Lan Yang, Ming Ming Chiu, Zi Yan, 2024-02-15 This volume addresses the pivotal role of feedback in enhancing students motivation and learning Through a series of innovative studies it uncovers the intricacies of how students perceive and utilize feedback offering practical strategies for educators while bridging the gap between feedback research and classroom practice The book showcases six outstanding studies that offer unique insights into how teacher feedback influences student learning and achievement all from the perspectives of students Chapters delve into various meaningful explorations of the paramount role of feedback in education offering readers profound insights into its pivotal significance the nuanced ways students respond to it and the intricate mechanisms governing its influence on student achievement and engagement The volume uncovers key mediators such as growth oriented goals feedback beliefs and school identification shedding light on how these factors shape the impact of feedback It also introduces practical strategies like rebuttal writing and emphasizes the need for personalized feedback aligned with students cognitive styles Additionally the book provides a comprehensive comparison across grades and feedback comments all while serving as a practical guide for educators researchers and policymakers thereby facilitating the implementation of evidence based feedback practices grounded in students voices and perspectives ultimately enriching their learning This book will be a key resource for researchers and academics in educational psychology student learning and assessment while also appealing to educators teachers school administrators and policymakers seeking to enhance their understanding of feedback s role in education and to improve their feedback practices It was originally published in *Educational Psychology*

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