

5. a. Find  $\frac{dy}{dx}$  when  $x = 2at$  and  $y = 2at^2$

(b) Evaluate :  $\int \sin 2x \cdot \sin 3x \, dx$

(c) Determine the interval in which the function  $f(x) = \frac{1}{2}x^2 - x$  is increasing or decreasing.

### Group 'B'

5 × 2 × 4 = 40

6. a. For any non-empty subsets A, B, C of universal set U, prove that:  
 $A - (B \cup C) = (A - B) \cap (A - C)$

Or

Define absolute value of a real number. Also prove that

$$|x| - |y| \leq |x + y|, \forall x, y \in \mathbb{R}$$

b. Sketch the graph of  $f(x) = (x-1)^2$  indicating its characteristics.

7. a. Solve for general values of  $\theta$  :

$$\sin \theta + \sin 2\theta + \sin 3\theta = \cos \theta + \cos 2\theta + \cos 3\theta$$

Or

If  $a=2$ ,  $b=\sqrt{6}$  and  $c=\sqrt{3}-1$ , find the angles of the triangle ABC.

(b) Prove that: 
$$\begin{vmatrix} a^2+1 & ab & ac \\ ab & b^2+1 & bc \\ ac & bc & c^2+1 \end{vmatrix} = 1+a^2+b^2+c^2$$

8. a. Solve by inverse matrix or row equivalent method:

$$x - y = 0, \quad 2x - y + 4z = 18, \quad -3x + z + 2 = 0$$

b. Find the equation whose roots are reciprocal of the roots of  $x^2 - x + 1 = 0$

9. a. Prove that the circles  $x^2 + y^2 + 2ax + c^2 = 0$  and  $x^2 + y^2 + 2by + c^2 = 0$

touch each other if  $\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{c^2}$

b. Evaluate :  $\lim_{x \rightarrow \theta} \frac{x \cos \theta - \theta \cos x}{x - \theta}$

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**Lei Shi**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Lei Shi'.

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David Bowles, Paul Metcalf, 2002 Written specifically for the Foundation and Intermediate tier GCSE for the AQA Modular GCSE Specification B This clearly presented book will help all students looking to achieve a grade C in GCSE maths An ideal stand alone resource for students doing the GCSE course in one year including students resitting modules **Ntsikelelo's**

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*Corporate DNA* Arnold Kransdorff, 2017-05-15 For more than half a century the developed world has been chasing productivity It's financed our wealth but that part of output on which our continued prosperity depends productivity growth

is petering out The traditional scapegoat has been the dearth of worker skills But the worker skills base has never been higher The other explanation is that it is managers who are not giving full value to their employers The way they re making decisions is conferring virtually no upside potential which means they re leaving us wide open for experience poor competitors to step into our experience rich shoes Exactly as Japan did in the 1960s and the so called BRICK countries Brazil Russia India China especially China and Korea are threatening now If creeping uncompetitiveness is not to overtake us from where are the next round of productivity gains to come from Identifying some gaping holes in the way managers are taught to manage this book outlines both the size of the problem and a solution Businesses and other organizations the author says have to substantially raise the quality of their decision making For this to happen they need to be much better experiential learners And for experiential learning to take place companies and other institutions have to better manage their corporate DNA the institution specific experiences otherwise known as Organizational Memory OM which characterizes any organization s ability to perform is the single biggest influence on decision making excellence It is a factor of production that has already been paid for at great expense yet is readily discarded in the backwash of the biggest change in workplace practice for more than a century the actively encouraged flexible labour market Corporate DNA explains why this key component of intellectual capital should be better managed can be better managed and particularly how it can be used to help organizations reduce the pandemic of repeated mistakes rei

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**The Journal of the Engineering Institute of Canada** Engineering Institute of Canada,1923      **Current Literature** ,1951      *The Schoolmasters Yearbook and Directory ...* ,1906      Backpacker ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured      The Mirror ,1972      *The Guardian Index* ,1986

Maths Paper 2 Grade 11 June Exam: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant 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 succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Maths Paper 2 Grade 11 June Exam : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating 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 engaging 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 masterful and thrilling 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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