

G.C.E. (Advanced Level) Examination - August 2012

Combined Mathematics - I

Three hours

PART - A

- (01) Using the Principle of Mathematical Induction, Prove that $1+2+\dots+n = \frac{n(n+1)}{2}$ for any Positive integer n .
- (02) Find the number of arrangements that can be made by using all the letters of the word ADDING find, in how many of these arrangements the vowels are separated
- (03) If the coefficients of x and the coefficient of x^2 in the binomial expansion of $(1+px)^{10}$, where P is a non-zero constant, are $-q$ and $1/q$ respectively, find the values of p and q
- (04) show that $\lim_{x \rightarrow 0} \frac{\cos x}{2 \cos^2 3x + x^2 \cos x} = \frac{1}{12}$
- (05) Find constant A and B such that $2e^x + 3e^{-x} = A(2e^x - e^{-x}) + B(2e^x + e^{-x})$
Hence, find $\int \frac{2e^x + 3e^{-x}}{2e^x - e^{-x}} dx$
- (06) Let l be the straight line passing through the points $(4,0)$ and $(0,2)$ and m be the straight line passing through the points $(2, 0)$ and $(0,3)$ Find the equations of the straight lines l and m Hence find the equation of the straight line through the origin and the point of intersection of l and m
- (07) A curve C is given by the equation $y = 4 - 4x + 3x^2 - x^3$
Find the equation of the tangent drawn to the curve C at the point $(1,2)$ show that this tangent is perpendicular to the tangent drawn to the curve $y^2 = 4x$ at the point $(1,2)$. The gradient of the tangent drawn to the curve C at the point $(1, 2)$
- (08) show that the equation of any circle through the points $(2,0)$ and $(0,2)$ can be written as $x^2 + y^2 - 4 + \lambda(x+y-2) = 0$ where λ is a parameter. Find the centre and the radius of this circle in terms of λ
- (09) Find the equation of the circle X with AP where $A = (1,3)$ and $P = (2,4)$ as a diameter also find the equation of the circle with centre $Q(-1,2)$ which cuts the circle X orthogonally
- (10) Taking $\frac{\pi}{12}, \frac{\pi}{4}, \frac{\pi}{3}$ show that $\tan\left(\frac{\pi}{12}\right) = 2 - \sqrt{3}$ Hence find the value of $\tan\left(\frac{23}{12}\pi\right)$

Thursday 8 November 2012 Maths Paper

Norman N. Greenwood



Thursday 8 November 2012 Maths Paper:

Teacher Education through Active Engagement Lori Beckett, 2013-12-04 Teacher Education through Active Engagement identifies and addresses a contemporary issue the ways in which teaching and teacher education are articulated by politicians civil servants business leaders and educational entrepreneurs intent on profit making in the current global neoliberal policy context This is often characterised by narrow and ill conceived ideas about teacher characteristics and competences recruiting and fast tracking graduates from elsewhere into the profession the reform of teacher training with less emphasis on theory and academic study a narrow focus on teachers core skills and the promotion of training in model teaching schools In this book contributors challenge this conceptualisation and demonstrate practitioners necessary intellectual activity to wrest back professional control By drawing on practice focused research carried out in sites of educational policy and practice each chapter exemplifies for teachers student teachers and teacher educators the sort of knowledge work to coordinate a professional reply to non educationalists who dictate the terms of teaching and teacher education The book provides directions for encouraging critical thinking analytical skills and political activism which consider the needs and interests of diverse children and young people in real classrooms real schools and real communities Illustrated throughout with practice focused research and drawing on the historical case of Winifred Mercier and her colleagues at the City of Leeds training college who challenged the establishment to leave a legacy of professional control the book will appeal to practitioners academics and researchers in the fields of teacher education and education studies

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Recollections of a Scientist Norman N. Greenwood, 2012-04-25 *Recollections of a Scientist 1 Boyhood and Youth in Australia 1925 1948* This illustrated book is the first volume of the Memoirs of a distinguished internationally renowned scientist Professor Norman N Greenwood FRS It gives a lively and intimate account of his boyhood and youth in Australia during the nineteen thirties and forties and is divided into thirteen chapters It is a personal account rather than a formal history and describes in refreshing detail his richly diverse experiences Chapter 1 explains how he came to be born in Melbourne although both of his parents as well as his elder sister and younger brother were all born in Northern England his father Professor John Neill Greenwood had just been appointed as the first Professor of Metallurgy in an Australian University The scene is further set by a brief account of the extraordinary events that led up to the founding of the University

of Melbourne following the Victorian Gold Rush of the mid nineteenth century and its subsequent development into one of the major Universities of the then British Empire The young family settled in Mont Albert one of the developing eastern suburbs of the expanding metropolis but unfortunately his parents separated soon afterwards and subsequently divorced The children moved with their mother to the neighbouring suburb of Surrey Hills and one of her sisters came out from England to help with the growing family Norman goes on to describe the various schools he attended and has some perceptive comments on his teachers the ethos of the schools and the gradual changes that have occurred in the approach to education in Victoria over the years since the nineteen thirties Initially vacations were spent at a country cottage being built by his father at Kinglake in the densely wooded hills to the north of Melbourne and Norman evokes a childhood view of the exotic plants and animals of the bush the deep secluded tree fern gullies and tumbling mountain streams His father was one of the main protagonists for the development of the Kinglake National Park which he had helped to found Tragically much of the Park was engulfed by the enormous bush fires the worst in Australia s history that wiped out the little township of Kinglake with great loss of life in February 2009 Other holidays were spent on the beaches of Port Phillip Bay or on the cooler slopes of the Dandenong Ranges to the east Norman and his younger brother Eric always known in his youth as Peter or Nipper loved roaming in the Olinda State Forest and Sherwood Forest where the tall mountain ash eucalyptus trees towered above the dense undergrowth of tree ferns and other plants Bush animals abounded as did the raucous cockatoos and multicoloured parrots The great prize however was to sight a lyre bird performing his stately dance and singing his amazing repertoire of all the other birds songs and even the man mad sounds of car horns chain saws and steam engines For the three years 1939 40 41 Norman attended University High School near the city centre and adjacent to the grounds of the University itself It was a remarkable school with an excellent academic reputation but also known for fostering of musical talent and for its prowess in sport Norman joined the School Orchestra as second flute and they gave concerts in the Melbourne Town Hall and occasionally on the State broadcasting station 3LO He also edited the School Magazine The Record perhaps an early portent of his later prolific output of scientific research papers reviews monographs and textbooks In the summer vacation of January 1940 during which Norman had his fifteenth birthday he went on and extended 1300 mile concert party tour of twenty eight country towns in Western Victoria and over the border into South Australia The trip was organised by the Young Australia League YAL and took the form of a White Minstrels Review of thirty boys with songs i *The Compact Edition of the Oxford English Dictionary* Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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