

Subject: A Course of Mathematics
Paper: A
Attempt Six questions in all by selecting Three questions from each section.

SECTION-I

(a) Define continuous function in term of $(\delta - \varepsilon)$ form and discuss the continuity of $f(x) = x - [x]$, $x \in \mathbb{R}$, for integral values of \mathbb{R} . 3+6/3
Define least upper bound and prove that the set $S = \{x : x^2 < 2\}$ has least upper bound $= \sqrt{2}$. 2+6/1

2(a) If u is a derivable function of v and v is a derivable function of x , then prove that $\frac{du}{dx} = \frac{du}{dv} \cdot \frac{dv}{dx}$. 9
0) If $y(x) = e^{ax} x^2$, find a formula for $y^{(n)}(x)$. 8/8

Q.3(a) If f is differentiable on $[a, b]$ and f' decreases strictly on $[a, b]$, prove that $f'(b) < \frac{f(b) - f(a)}{b - a} < f'(a)$. How is this result modified if f' increases strictly on $[a, b]$? Hence show that if $f(x) = \sin x$, $a = \frac{\pi}{3}$, $b = \frac{61\pi}{180}$ then $\sin 61^\circ - \sin 60^\circ < 0.0088$. 9

(b) Evaluate the following limit: $\lim_{x \rightarrow 1} \frac{(1-x^{n+1})(1-x^{n+2})(1-x^{n+3}) \dots (1-x^{n+k})}{(1-x)(1-x^2)(1-x^3) \dots (1-x^k)}$. 8

Q.4(a) Describe the geometrical significance of the derivative of the radius vector with respect to the polar angle. 9
(b) Show that Pedal equation of the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ is $\frac{1}{p^2} = \frac{1}{a^2} + \frac{1}{b^2} - \frac{r^2}{a^2 b^2}$. 8

Q.5(a) Show that the maximum value of $(\frac{1}{x})^x$ is $(e)^{1/e}$. 8
(b) If $y(x) = (x + \sqrt{1+x^2})^m$, prove that $(1+x^2)y''(x) + xy'(x) - m^2 y(x) = 0$ and $(1-x^2)y^{(n+2)}(x) + (2n+1)xy^{(n+1)}(x) + (n^2 - m^2)y^{(n)}(x) = 0$. 2/10

Q.6(a) Find the centre of curvature of the astroid $x^{2/3} + y^{2/3} = a^{2/3}$. 9
(b) The normal to a given curve is a tangent to its evolute. 8

SECTION-II

Q.7(a) State and prove the fundamental theorem of the integral calculus. 9
(b) Prove that $\int_0^{\pi} \frac{\ln(1+x^2)}{1+x^2} dx = \pi \ln 2$. 8

Q.8(a) Define improper integral and determine the convergence or divergence of the following improper integral and evaluate. The convergent integral $\int_0^{\infty} e^{-x} x^5 dx$. 2+7/9
(b) Evaluate $\int \frac{x^2}{(1+x^2)^3} dx$. 8/8

Q.9(a) Evaluate $\int \frac{x + \sin x}{1 + \cos x} dx$. 8/2
(b) (i) If $f(x)$ and $g(x)$ are two antiderivatives of $\phi(x)$ then $f(x)$ and $g(x)$ must differ by a constant. 4/1
(ii) Evaluate $\int \frac{\sqrt{9x^2-1}}{x} dx$. 4/4

Q.10(a) Show that the intrinsic equation of the semicubical parabola $ay^2 = x^3$, taking the cusp as the fixed point is $27S = 8a(\sec^2 \psi - 1)$. 8
(b) Find the area of the region included between the cardioid $r = 2a(1 + \cos \theta)$ and the circle $r = 6a \cos \theta$. 8

Q.11(a) Assuming that the area of an ellipse with semi axes a and b is πab , compute the volume of the ellipsoid $\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$. 8
(b) Find the Fourier series representing the function $f(x) = |x|$, $-\pi \leq x \leq \pi$. 8

Q.12(a) Determine whether the series $\sum_{n=1}^{\infty} \frac{\arctan n}{1+n^2}$ converges or diverges. 8
(b) Apply any appropriate test to determine the convergence or divergence of the series $\sum_{n=1}^{\infty} \frac{(2n+1)!}{n^2(n+1)!}$. 8

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High School Days Dr. Ross Gordon Cooper,2019-08-02 High school days in Africa were ones of challenge hard work and fun I attended a total four high schools commencing Form 1 at Vainona High School Forms 3 at Benoni and Churchill High Schools and sixth form college at ILSA During my time I faced many struggles and adjustments but throughout my high school era I never failed a public exam ZJC O AS and A Levels and Maths Olympiad I also took a keen interest in sport and clubs In particular I represented my schools in innumerable chess tournaments There were also the times of flirting and romance Punishments included the cane manual labour and detention Suspension and expulsions were only for very serious offences I hope that this book brings back high school memories to each reader **Aled Jones - My**

Story Aled Jones,2013-10-17 Aled Jones was a choirboy with a remarkable voice whose prodigious talent propelled him to international stardom Before he was sixteen he had already sold more than six million records and had become a fixture on television and radio He has worked alongside such greats as Leonard Bernstein Andrew Lloyd Webber Sir Neville Marriner Howard Blake and Mike Oldfield Some of the high points of his early career include performances at the Hollywood Bowl and the wedding of Bob Geldof and Paula Yates as well as singing privately for the Prince and Princess of Wales Best known as a boy soprano for his hit Walking in the Air Aled tells the full story of this phenomenal record and the effect it had on his life Always refreshingly honest and self effacing Aled reveals how he faced up to life after his voice had broken and how he carved out a new career for himself on stage record television and radio His story begins with his idyllic childhood on the Welsh island of Anglesey and his years as a chorister at Bangor Cathedral during which his family provided wonderful support and encouragement as he rose to fame He tells of his studies at the Royal Academy of Music and the Bristol Old Vic Theatre School and delves behind the scene of some of Britain s best know institutions such as Songs of Praise BBC Wales and Classic FM Aled reveals the truth about the man behind the music in this frank heartwarming and funny account of his life **Digging for Australia** Rachael Gurney,2010-05 What would you think about going to live in Paris In 2003 having

returned to the UK unexpectedly Rachael Gurney was looking through the thousands of slides that her father had taken in the sixties and seventies Trying to work out when and where they had been taken she turned to the scrapbooks she had made as a child Apart from the usual postcards the scrapbooks were full of plane and boat tickets and as a indication of things to come lids cut out from cheese boxes and labels lovingly soaked and dried from bottles of wine her parents had drunk This helped her place many of the slides and re awakened fond memories of childhood family holidays Wanting to preserve these memories she started writing about them However it didn t stop there as she was enjoying the writing process so much and continued with further travelling tales The result is part biography part travel guide It tells of some wonderful highs counteracted by those disasters which make travelling so interesting It also acts as a personal travelogue from places as diverse as Mexico Slovakia and Singapore and an insight into living and working in a number of counties including Poland

and Portugal **Experimental Test Pilot** Chris Taylor, 2023-06-30 Chris Taylor has had a very successful career as a Royal Navy officer helicopter pilot test pilot instructor and as an internationally acclaimed civil certification test pilot His first book Test Pilot concentrates on anecdotes and incidents from the most recent phase of his career This book is the prequel and is his account of his ten years service as an experimental test pilot from 1994 until 2004 at MoD Boscombe Down the UK's tri Service home of military aircraft testing and evaluation In this book Chris explains what led to his passion to be a test pilot and how with tenacity he plays the cards he was dealt as well as he could The story captures the difficulties and challenges associated with being selected for the single annual place at the Empire Test Pilots School ETPS and the dedication required to then complete the very demanding twelve month course Chris was one of only three helicopter experimental test pilots posted to the Experimental Flying Squadron EFS It was there that he worked with scientists from the defense Research Agency DRA at Bedford and Farnborough on a number of cutting edge technologies specializing in ship helicopter interface testing In addition to flying the Westland Wessex Lynx and Sea King Chris was able to act as an evaluation pilot in the Hunter Jaguar Andover Hawker Siddeley HS748 and the Comet During his time as an active test pilot EFS was merged into three platform squadrons which gave Chris the chance to play a full part in conventional release to service activities in a wide variety of rotorcraft Asked to take on the role of a flight test instructor FTI Chris served at ETPS where he made sweeping changes to the syllabus acquired a new helicopter type and had to deal with a number of students who could not cope with the rigors of the course In his first year he suffered a flame out in a Hawk jet an engine failure during his first flight in the twin engine Basset and crashed the school's Westland Scout helicopter all of which are fully discussed Following four successful years teaching helicopter flight test Chris was recruited to manage the ETPS short course portfolio This required the design sale and delivery of numerous flight test courses while also introducing innovative teaching methods and the use of civil registered aircraft In this new exciting and rewarding role Chris taught both fixed wing and rotary wing students and the book explains the difficulties of learning the additional skills and flight test techniques required of a fixed wing test pilot This autobiography explores the military flight test career of an individual who is arguably one of the best qualified and most experienced test pilots working today anywhere in the world **In Search of Technological Excellence** John

Heywood, 2025-09-04 The notion that Britain was losing its international industrial competitiveness has preoccupied governments since the Second World War Policymakers have sought to address this over the years and yet Britain's relative industrial decline has appeared to continue raising questions about its root causes In Search of Technological Excellence analyses the policymaking and policy implementation in the education of engineers and technologists from the 1945 report of the Percy Committee on Higher Technological Education to the conclusion of the Thatcher government's Enterprise in Higher Education Initiative Using a plethora of previously unpublished sources this book focuses on the untold story of what the reports of the three key committees in this fifty year period Percy 1945 Fielden 1963 and Finniston 1980 actually

achieved in secondary and higher technological education The core themes of this volume include industrial training and its assessment the controversy over the structure of industrial sandwich courses the perceived requirements for qualified specialists the manpower controversy curriculum development creativity and innovation in engineering engineers as managers and engineering in schools Thought provoking and comprehensive *In Search of Technological Excellence* reflects on perennial problems to help clarify how this history can inform policymaking today and will be of interest to policymakers practitioners and students in engineering education and public administration **Daily Graphic** Elizabeth

Ohene,1980-02-12 **Daily Graphic** I.K. Nkrumah,1976-02-17 *Burning Our Money* Mike Denham,2013-02-21 Britain is in the midst of a fierce battle over government spending With debts mounting rapidly the 700 billion annual bill is no longer sustainable But cuts face a wall of opposition with dire warnings that they will ravage our society hospital waiting lists will grow schools will close and the poor will tumble into a new Dickensian abyss Yet much of what the government currently spends is wasted and public sector performance is often woeful In *Burning Our Money* Mike Denham casts a critical eye over the services we receive for our hard earned cash and finds them radically often shockingly wanting For all the media insistence that the NHS is the envy of the world it stacks up poorly against European healthcare systems For all our apparently soaring exam grades our children significantly underperform their future competitors in China Korea and elsewhere And for all our hand wringing about abolishing poverty our huge welfare system actually damages many of the poor it s supposed to help Drawing on extensive research and up to the minute reporting *Burning Our Money* comprehensively debunks the myth that more public spending means better public services and shows how we can and must get more for less **A Good Human Being** Oluwasegun Babatunde,2021-06-24 The question Who is good re echoes

throughout the history of mankind The act of benignity presents a tough nut to crack in an environment where evil wins more frequently But in our environment of contempt theft death tragedy and chaos there is however a man who chooses to be different His true life account called *A Good Human Being* depicts once more that as our lives get tougher there is the possibility to do better than we presently do *Naval Aviator* Chris Taylor,2023-11-23 Chris Taylor has had a very successful career as a Royal Navy officer helicopter pilot test pilot and instructor His first book *Test Pilot* concentrates on anecdotes and incidents from the most recent phase of his career His second book *Experimental Test Pilot* is an account of his ten years service as an experimental test pilot from 1994 until 2004 at MoD Boscombe Down the UK s tri Service home of military aircraft testing and evaluation Written in the same humorous manner as his previous books *Naval Aviator* explains why Chris wanted to become a pilot and how he achieved that through the Royal Navy and Fleet Air Arm Following the perhaps misleading advice of his local careers office Chris joined the Royal Navy on a University Cadetship which required him to serve initially as a watchkeeping and navigation officer before he could sub specialise as a Westland Wasp and subsequently a Westland Lynx pilot This book covers each appointment or ship that Chris served in and provides a no holds

barred account of the many life threatening and stressful situations he faced not least working with and for some unhelpful if not outright unreasonable colleagues The operating environment of a small ship s flight is graphically described including flying in extremely poor weather conditions and high sea states in order to get the job done His ditching of a Wasp during training and then damaging his helicopter at sea is fully documented In addition to numerous close calls as an aviator Chris is unusual in being involved in four major collisions at sea For one of these collisions he was the officer responsible for conning or driving the ship and despite his best efforts his ship rammed a German Frigate in thick fog in the Baltic Serving on a Hong Kong Patrol boat he had numerous encounters with armed Chinese patrol boats and soldiers as a Fishery Protection Officer he was attacked with an acetylene blow torch and kidnapped by a French trawler as a Wasp pilot he almost singlehandedly had to protect the Royal Yacht from the threat of Libyan gunboats as a Lynx pilot he won the day in numerous major international exercises around the world and served for a month on detachment to a Dutch frigate All of these accidents incidents and adventures are fully described set alongside the challenges of trying to maintain a normal domestic life Naval Aviator accurately captures the ups and downs of life as a Royal Navy Officer and Fleet Air Arm pilot of the Cold War and will be a good read for anyone interested in naval or aviation history It is also an ideal book for aviators aspiring aviators service veterans and anyone who is considering such a career **The Faith of a Child** Patti Boulaye,2016-04-02 The remarkable moving and exciting autobiography of an African child through wealth poverty civil war to Show business Stardom An inspiration for all those with faith

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