

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

3(a) 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 $(1-x^2)y^{(n+2)}(x) + (2n+1)xy^{(n+1)}(x) + (n^2 - m^2)y^{(n)}(x) = 0$. 9/10

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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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

Mr Chips Comes Home Mike Gerrard, Bryan Skinner, 1984

Much Promise: Successful Schools in England Barnaby Lenon, 2017-04-24 Barnaby Lenon a former schoolmaster and headmaster who is chair of the Independent Schools Council takes an in depth look at the elements that make up a successful school He examines leading and latest research on school leadership and management looks at how teachers pupils parents and governors can achieve results and puts the spotlight on subjects exam systems and social mobility For his research he visited a number of schools that are achieving outstanding results John Perryn Primary School Acton Tollgate Primary School Newham King Solomon Academy Marylebone Burlington Danes Academy Hammersmith West London Free School

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