

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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Studies Revision Gd S4 , Cambridge Igcse O Level Mathematics [0580] Fully Solved Past Papers - Core [paper 3] S. A. I. Gopal SUNKARA,2017-02-12 CAMBRIDGE IGCSE O LEVEL MATHEMATICS 0580 FULLY SOLVED PAST PAPERS CORE PAPER 3 VERY USEFUL FOR O LEVEL STUDENTS OF ALL VARIANTS CONTAINS 11 FULLY SOLVED PAST PAPERS FROM 2011 TO 2016 5 Practice Sets for SAT, MAT & LCT - NTSE Stage 1 Disha Publication, 5 Practice Sets for SAT MAT LCT NTSE Stage 1 contains 5 Practice Sets as per the latest pattern for each of the 3 parts SAT MAT LCT The detailed Solutions are provided for all the sets Parliamentary Papers Great Britain. Parliament. House of Commons,1914 **Calculations for A-level Chemistry** E. N. Ramsden,1995 Comprehensive mathematics foundation section Work on formulae and equations the mole volumetric analysis and other key areas is included Can be used as a course support book as well as for exam practice Best selling experienced chemistry author 50 Years Of Science In Singapore Bernard Tiong Gie Tan,Hock Lim,Kok Khoo Phua,2016-12-12 As part of the commemorative book series on Singapore s 50 years of nation building this important compendium traces the history and development of the various sectors of Singapore science in the last 50 years or so The book covers the government agencies responsible for science funding and research policy the academic institutions and departments who have been in the forefront of the development of the nation s scientific manpower and research the research centres and institutes which have been breaking new ground in both basic and applied science research science museums and education and the academic and professional institutions which the scientific community has set up to enable Singapore scientists to serve the nation more effectively Each article is chronicled by eminent authors who have played important roles and made significant contributions in shaping today s achievement of science in Singapore Professionals academics students and the general public will find this volume a useful reference material and an inspirational easy read Foundations of Statistics D.G. Rees,1987-09-01 This text provides a through straightforward first course on basics statistics Emphasizing the application of theory it contains 200 fully worked examples and supplies exercises in each chapter complete with hints and answers **The National Bibliography of Nigeria** ,1988 Cambridge Igcse O Level Mathematics [0580] Fully Solved Past Papers-Extended Paper 4 S. A. I. Gopal SUNKARA,2017-02-12 CAMBRIDGE IGCSE O LEVEL MATHEMATICS 0580 FULLY SOLVED PAST PAPERS EXTENDED PAPER 4 VERY USEFUL TO O LEVEL STUDENTS OF ANY VARIANT CONTAINS 11 FULLY SOLVED PAST PAPERS FROM 2011 TO 2016 VARIENT 2 The Gambia National Bibliography ,1990 **Bulletin of the British Psychological Society** British Psychological Society,1968 National Bibliography of Uganda ,2009 BOLESWA Conference ,2000

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