

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

(b) 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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Nadia Siddiqui, Stephen Gorard



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Teaching Primary Mathematics Sylvia Turner,2012-11-13 Teaching Primary Mathematics covers what student teachers really need to know and why including approaches to teaching and learning planning and assessment and using resources in maths teaching It also provides a brief historical overview of the teaching of mathematics and examines strategies to enhance learning and development as a confident mathematician in the primary classroom Informed by seminal and current research and recent developments in education policy the book also explores the role of mathematics within the primary curriculum the development of mathematics as a subject of study the knowledge that can be gained from considering international approaches to mathematics This is essential reading for all students on primary initial teacher education courses including undergraduate BEd BA with QTS postgraduate PGCE SCITT and School Direct and employment based routes into teaching Sylvia Turner is Senior Lecturer in the Faculty of Education at the University of Winchester

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diverse curriculum issues and practices in different education systems offering a comprehensive picture of various stages along curriculum transformation from the intended to the achieved and showing how curriculum changes in various stages contribute to mathematics teaching and learning in different educational systems and cultural contexts The book is organized to help readers learn not only from reading individual chapters but also from reading across chapters and sections to explore broader themes including Identifying what is important in mathematics for teaching and learning in different education systems Understanding mathematics curriculum and its changes that are valued over time in different education systems Identifying and analyzing effective curriculum practices Probing effective infrastructure for curriculum development and implementation Mathematics Curriculum in School Education brings new insights into curriculum policies and practices to the international community of mathematics education with 29 chapters and four section prefaces contributed by 56 scholars from 14 different education systems This rich collection is indispensable reading for mathematics educators researchers curriculum developers and graduate students interested in learning about recent curriculum development research and practices in different education systems It will help readers to reflect on curriculum policies and practices in their own education systems and also inspire them to identify and further explore new areas of curriculum research for improving mathematics teaching and learning

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Watson, 2022-12-07 This book constitutes the refereed proceedings of the 51st Annual Conference of the Southern African Computer Lecturers Association SACL A 2022 held in Cape Town South Africa during July 21 22 2022 The 10 full papers were included in this book were carefully reviewed and selected from 31 submissions They were organized in topical sections as follows curriculum assessment teaching in context innovative teaching and pandemic pedagogy **Oswaal One For All**

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The Armed Forces Covenant in action? Great Britain: Parliament: House of Commons: Defence Committee,2013-07-18 A series of Ofsted inspections on Army Apprenticeships conducted in 2013 rated the overall effectiveness as good This was an improvement over the last inspection in 2009 rated as satisfactory now called requires improvement Some 28 per cent of Army recruits were less than 18 years of age Further information is needed on why the Army is so dependent on recruiting personnel under the age of 18 years compared to the other two Services and whether steps are being taken to reduce this dependency Of those recruited in 2012 3 5 per cent of the Army were rated at entry level 2 for literacy that of a 7 to 8 year old and 39 per cent had a literacy level of an eleven year old If as the MoD states it has to recruit personnel at whatever level of attainment is available then it should boost remedial action when recruitment entry standards are particularly low In light of changes brought about by Future Force 2020 it may be that recruiting personnel with higher levels of attainment would better meet the future needs of the Armed Forces Whilst the Committee recognises that some recruits may not be eager to take further academic exams the MoD should encourage more recruits to undertake English and Maths GCSEs which would stand them in good stead for future employment The MoD has carried out some useful pilot projects with paramedic training and should identify more potential projects to ensure that vital skills paid for by the MoD are not lost to the country Making Your Doctoral Research Project Ambitious Nadia Siddiqui,Stephen Gorard,2022-04-25 This book presents the doctoral dissertation process as not just a way of getting a qualification or even a method of learning how to do research better but as a substantial and significant piece of research in its own right The book will inspire current and prospective PhD scholars to take up ambitious and large scale study projects dedicating this most important time to a worthy piece of research This edited collection provides real and outstanding examples of multiple research design methodologies which will allow doctoral researchers to develop a wide set of research skills leading to the development of a high quality academic thesis from which peer reviewed research papers and books can emerge Each main chapter presents the summary of a doctoral thesis followed by focused aspects from the projects where the contributors

highlight the development of a research design the process involved in executing the design and present selected findings with their implications Each chapter concludes with the researchers experiences of learning through this journey and the implications of the process for the development of the discipline and their own career Ideal reading for doctoral students and supervisors this book is a source of encouragement and motivation for new researchers seeking to challenge general perceptions in the social sciences that PhD or other doctoral research projects must be small scale rather trivial studies but can instead produce robust findings that have real world implications *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 *Oswaal One For All Olympiad Previous Years' Solved Papers Class 7 (Set of 6 Books) Maths, English, Science, Reasoning, Cyber & General Knowledge (For 2024-25 Exam)* Oswaal Editorial Board,2024-04-16

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