PROVINCIAL MANAGEMENT SERVICE, ETC - 2016

SUBJECT: MATHEMATICS (PAPER-J)

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt Five Ouestions in Ail. THREE Questions from Section "A"

SECTION - A

- **Q No. 1**: (a) Evaluate $\lim_{n \to \infty} \left(1 + \frac{1}{n}\right)^n$
 - where n tends to infinity through positive integral values only.

 (b) State and prove Leibniz theorem. Find nth derivative of $e^{x} \ln x$

(20 Marks)

- Q No. 2: a) Find (i) $\lim_{x\to 0} (\cot x)^{\sin 2x}$
 - (ii) $\lim_{x \to \frac{\pi}{2} (\frac{\tan x}{\tan 3x})}$
 - b) Evaluate (i) $\int \frac{dx}{\sqrt{x-x^{\frac{1}{3}}}}$ (ii) $\int_{-3}^{3} |x| dx$

(20 Marks)

(20 Marks)

- **Q.No. 3**: a) Evaluate $\int_0^1 \int_0^x (x^2 + 4xy) dy dx$
 - b) Evaluate $\iiint_v 3(x^2 + y^2 + z^2)dv$

Where s is bounded by the planes $\,x=1$, x=3 , y=-1 , y=1 z=2 and z=4 ,

Q No. 4: Solve the initial value problems:-

a)
$$(x^2 + 3y^2)dx - 2xy dy = 0$$
, $y(2) = 6$

b)
$$(x^2 + 1)\frac{dy}{dx} + 4xy = x$$
, $y(2) = 1$

Q No. 5:

a) A body of mass 2 slugs is dropped with no initial velocity and encounters an air resistance that is proportional to the square of its velocity. Find an expression for the velocity of the body at any time.

(b) Approximate
$$\int_0^2 \frac{1}{\sqrt{(x^2+1)}} dx$$
 with $n=4$
By using rules (i) Trapezoidal (ii) Sampson's

(20 Marks)

Math Paper 1 March 2015

David H. Bailey, Jonathan M. Borwein

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Model and Mathematics: From the 19th to the 21st Century Michael Friedman, Karin Krauthausen, 2022-08-08 This open access book collects the historical and medial perspectives of a systematic and epistemological analysis of the complicated multifaceted relationship between model and mathematics ranging from for example the physical mathematical models of the 19th century to the simulation and digital modelling of the 21st century. The aim of this anthology is to showcase the status of the mathematical model between abstraction and realization presentation and representation what is modeled and what models This book is open access under a CC BY 4 0 license Mathematics Education Jacqueline Dewar, Pao-sheng Hsu, Harriet Pollatsek, 2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development Generation David H. Bailey, Jonathan M. Borwein, 2016-07-19 This book contains a compendium of 25 papers published since the 1970s dealing with pi and associated topics of mathematics and computer science The collection begins with a Foreword by Bruce Berndt Each contribution is preceded by a brief summary of its content as well as a short key word list indicating how the content relates to others in the collection The volume includes articles on actual computations of pi articles on mathematical questions related to pi e g Is pi normal articles presenting new and often amazing techniques for computing digits of pi e g the BBP algorithm for pi which permits one to compute an arbitrary binary digit of pi without needing to compute any of the digits that came before papers presenting important fundamental mathematical results relating to pi and papers presenting new high tech techniques for analyzing pi i e new graphical techniques that permit one to visually see if pi and other numbers are normal This volume is a companion to Pi A Source Book whose third edition released in 2004 The

present collection begins with 2 papers from 1976 published by Eugene Salamin and Richard Brent which describe quadratically convergent algorithms for pi and other basic mathematical functions derived from some mathematical work of Gauss Bailey and Borwein hold that these two papers constitute the beginning of the modern era of computational mathematics This time period 1970s also corresponds with the introduction of high performance computer systems supercomputers which since that time have increased relentlessly in power by approximately a factor of 100 000 000 advancing roughly at the same rate as Moore s Law of semiconductor technology This book may be of interest to a wide range of mathematical readers some articles cover more advanced research questions suitable for active researchers in the field but several are highly accessible to undergraduate mathematics students What is a Mathematical Concept? Elizabeth de Freitas, Nathalie Sinclair, Alf Coles, 2017-06-22 Responding to widespread interest within cultural studies and social inquiry this book addresses the question what is a mathematical concept using a variety of vanguard theories in the humanities and posthumanities Tapping historical philosophical sociological and psychological perspectives each chapter explores the question of how mathematics comes to matter Of interest to scholars across the usual disciplinary divides this book tracks mathematics as a cultural activity drawing connections with empirical practice Unlike other books in this area it is highly interdisciplinary devoted to exploring the ontology of mathematics as it plays out in different contexts This book will appeal to scholars who are interested in particular mathematical habits creative diagramming structural mappings material agency interdisciplinary coverings that shed light on both mathematics and other disciplines Chapters are also relevant to social sciences and humanities scholars as each offers philosophical insight into mathematics and how we might live mathematically International Journal of Mathematical Combinatorics, Volume 3, 2016 Linfan Mao, The mathematical combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

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