

CBCS SCHEME

USN

BMATS101

First Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 Mathematics – I for CSE Stream

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. VTU Formula Hand Book is permitted.
3. M : Marks, L: Bloom's level, C: Course outcomes.

Module – 1				M	L	C
Q.1	a.	With usual notation prove that $\frac{d}{dt}(r \sin \theta) = r \cdot \frac{d\theta}{dr}$.		6	L2	CO1
	b.	Find the angle between the curves $r = 6 \cos \theta$ and $r = 2(1 + \cos \theta)$.		7	L2	CO1
	c.	Find the radius of curvature for the Folium of De Cartes $x^3 + y^3 = 3axy$ at the point $\left(\frac{3a}{2}, \frac{3a}{2}\right)$.		7	L2	CO1
OR						
Q.2	a.	Show that the curves $r = a(1 + \sin \theta)$ and $r = a(1 - \sin \theta)$ cut each other orthogonally.		8	L2	CO1
	b.	Find the pedal equation of $r^2 = a(1 + \cos \theta)$.		7	L2	CO1
	c.	Using modern mathematical tool, write a program/code to plot the curve sine and cosine curve.		5	L3	CO5
Module – 2						
Q.3	a.	Using Maclaurin's series, expand $\sqrt{1 + \sin 2x}$ in powers of x upto the terms x^4 .		7	L2	CO1
	b.	If $U = e^{ax+by} f(ax^2+by^2)$, prove that $b \frac{\partial U}{\partial x} + a \frac{\partial U}{\partial y} = 2abU$.		6	L2	CO1
	c.	Find the extreme values of the function $\sin x + \sin y + \sin(x+y)$.		7	L3	CO1
OR						
Q.4	a.	Evaluate the $\lim_{x \rightarrow 0} \left[\frac{a^x + b^x + c^x + d^x}{4} \right]^x$.		8	L2	CO1
	b.	If $U = f(2x - 3y, 3y - 4z, 4z - 2x)$, prove that $\frac{1}{2} \frac{\partial U}{\partial x} + \frac{1}{3} \frac{\partial U}{\partial y} + \frac{1}{4} \frac{\partial U}{\partial z} = 0$.		7	L2	CO1
	c.	Using modern mathematical tool, write a program/code to evaluate $\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^x$.		5	L3	CO5
Module – 3						
Q.5	a.	Solve $\frac{dy}{dx} + \frac{y}{x} = x^2 y^4$.		6	L2	CO2
	b.	Find the orthogonal trajectories of the family $r = a(1 + \sin \theta)$.		7	L3	CO2
	c.	Find the solution of the equation $x^2(y - Px) = P^2 y$ by reducing into Clairaut's form using the substitution $X = x^2, Y = y^2$.		7	L2	CO2
OR						

Jan 2aqa Cpaper Maths

Emilie Sanchez

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Jan 2aga Cpaper Maths:

The Times Index ,2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **Oswaal JEE Main (2019-2023) Question Bank Chapterwise + Topicwise | Physics + Chemistry + Mathematics (Set of 3 Books) (For 2024 Exam)** Oswaal Editorial Board,2023-06-14 Description of the product 100% Updated with 4 Shifts Fully Solved 2023 January April Papers Extensive Practice No of Questions Physics 1000 Chemistry 1000 Mathematics 1000 Cognitive Learning with Smart Mind Maps Mnemonics Valuable Exam Insights with Expert Tips to crack JEE Main in first attempt Concept Clarity with Concept based revision notes detailed explanations 100% Exam Readiness with 5 Years Chapter wise Trend Analysis 2019 2023 **Joyce in the Belly of the Big Truck; Workbook** Joyce A. Cascio,2005-05 *Independent Schools Yearbook 2012-2013* none,2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council s Associations HMC GSA The Society of Heads IAPS ISA and COBIS

Education by Numbers Warwick Mansell,2007 It sounded a noble aim for New Labour to prioritise education The method they chose since coming to power was a relentless attempt to raise standards by an obsession with tests and exams in every school almost at every level Warwick Mansell researches the subject in detail and reveals how intention and practice differ so widely **Rhinegold Guide to Music Education** ,2005 Who's Who in Science and Engineering 2008-2009 Who's Who Marquis,Marquis Who's Who,2007-12 *The British National Bibliography* Arthur James Wells,2009 The Official Index to the Financial Times ,2003 *Notices of the American Mathematical Society* American Mathematical Society,1979 *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons,2007 **The Forgotten Schools** Soli Shahvar,2009-09-30 By the end of the nineteenth century it became evident to Iran s ruling Qajar elite that the state s contribution to the promotion of modern education in the country was unable to meet the growing expectations set by Iranian society Muzaffar al Din Shah sought to remedy this situation by permitting the entry of the private sector into the field of modern education and in 1899 the first Baha i school was established in Tehran By the 1930s there were dozens of Baha i schools Their high standards of education drew many non Baha i students from all sections of society Here Soli Shahvar assesses these forgotten schools and investigates why they proved so popular not only with Baha is but Zoroastrians Jews and especially Muslims Shahvar explains why they were closed by the reformist Reza Shah in the late 1930s and the subsequent fragility of the Baha is position in Iran **Forthcoming Books** Rose Arny,1994-02 **Children's Books in Print** ,1993 **Mathematical Reviews** ,2008 *Who's who in America* ,2003 AQA A-Level (Year 2) Mathematics Exam Practice Jan Dangerfield,Rose Jewell,Sue Pope,Nick Geere,2018-11-30 Benefit from the expert input of experienced examiners and subject specialists including Heather Davis in this assessment led Practice Book tailored to the new 2017 specifications and packed with exam style questions Thoroughly prepare your students for the exam with over 200 exam style

questions that are matched to the new specifications Provide structured support and extra practice with questions focused on problem solving modelling and technology Create opportunities for self directed learning and assessment with answers at the back of the book plus full step by step worked solutions and mark schemes supplied online Enhance learning with extra practice designed to supplement the textbooks and the My Revision Notes series **Arts & Humanities Citation Index**,1975 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world s leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals Catalog of Copyright Entries, Fourth Series Library of Congress. Copyright Office,1978-04
International Handbook of Universities ,2010

Jan 2aqa Cpaper Maths Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Jan 2aqa Cpaper Maths**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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