

# 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 $\frac{d}{dt} \left( r \frac{d\theta}{dr} \right) = r \cdot \frac{d\theta}{dr}$ .	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 $r^* = a(1 + \cos n\theta)$ .	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 $\lim_{x \rightarrow 0} \left[ \frac{a^x + b^x + c^x + d^x}{x} \right]^x$ .	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 $x^2(y - Px) = P^2y$ by reducing into Clairaut's form using the substitution $X = x^2, Y = y^2$ .	7	L2	CO2
OR					

# Jan 2aqa Cpaper Maths

**Pamela Cowan**



## Jan 2aqa Cpaper Maths:

**Key Maths GCSE**, 2002-06 Written to support and enhance assessment alongside the pupil texts these resources offer a range of material for the AQA specification They provide test questions for each chapter together with detailed mark schemes to make assessment easy Two versions of each question are provided one allows pupils to write their answers in the spaces provided and the other requires pupils to have separate writing paper Questions can be grouped according to needs Master grids are provided to cut and paste tests together in a consistent format to use the resource in any order Chapter tests can be grouped to form a module test after chapters End of chapter examinations can also be produced in this way A free non calculator supplement organised by unit chapter is also included in this resource *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 Mathematics Mark Patmore, Brian Seager, 2006 Written by examiners and experienced teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide *Mathematical Modelling* C Haines, P Galbraith, W Blum, S Khan, 2007-08-01 This book continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Each chapter shows how real life problems can be discussed during university lectures in school classrooms and industrial research International experts contribute their knowledge and experience by providing analysis insight and comment whilst tackling large and complex problems by applying mathematical modelling This book covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Shows how real life problems can be discussed during university lectures in school classrooms and industrial research **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 **Key Maths Gcse** David Baker, 2002 Developed by the highly experienced Key Maths author team the series contains students books for Foundation Intermediate I Intermediate II and Higher Material builds spirally allowing students and teachers to revisit concepts and skills and select appropriate teaching and learning programmes AQA board specific Teacher Files and Question Banks can be used for extra support for this course Gcse Success Workbook Aqa Maths Higher (2010), 2006-07 Presents the accompanying questions and answers to the Success revision guide This title

covers various things students need to know for their GCSE It makes GCSE exam revision simple Suitable for 2010 2011 GCSE Maths exams only *Debates in Mathematics Education* Dawn Leslie, Heather Mendick, 2013-10-01 *Debates in Mathematics Education* explores the major issues that mathematics teachers encounter in their daily lives It engages with established and contemporary debates promotes and supports critical reflection and aims to stimulate both novice and experienced teachers to reach informed judgements and argue their point of view with deeper theoretical knowledge and understanding Written by experts in the field of mathematics education it investigates and offers fresh insight into topics of central importance including Gender social inequality and mathematics Mathematics politics and climate change The history and culture of mathematics Using popular culture in the mathematics classroom The concept of ability and its impact on learning What we mean by teaching for understanding Choosing and using examples in teaching The fitness of formal examinations Designed to stimulate discussion and support you in your own research writing and practice *Debates in Mathematics Education* will be a valuable resource for any student or practising teacher engaged in initial teacher training continuing professional development or Masters level study It also has much to offer to those leading initial teacher education programmes and to beginning doctoral students looking for a survey of the field of mathematics education research *Joyce in the Belly of the Big Truck; Workbook* Joyce A. Cascio, 2005-05 *Teaching Mathematics* Pamela Cowan, 2006-02-13 Practical advice for teachers of Mathematics at the beginning of their careers in primary or secondary schools with guidance on effective teaching classroom practice and career development **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

*Citizenship and Democracy in Further and Adult Education* Neil Hopkins, 2013-07-30 This book addresses the questions why citizenship education is an important subject for students in further and adult education and why we need democratic colleges to support the study of citizenship education It investigates the historical roots of further and adult education and identifies how the adoption of citizenship education in the post compulsory sector can enrich vocational studies in further education and programmes in adult education It is argued that democratic colleges are vital to ensure that citizenship education informs the decision making process throughout educational institutions and as a means of establishing fair and equal representation for important stakeholders The author has worked in both sectors for over a decade and uses this experience to offer a blend of educational practice and philosophical investigation The result is a work that appeals to both teachers in further and adult education as well as academics and students interested in philosophy of education

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      **Gcse Applied Business Aqa** Carol Carysforth, Mike Neild, 2009-06-02 This book meets all the assessment requirements of the AQA specification however it is also suitable for students following other specifications      *Achieving a in Gcse Aqa English Specif* Paul Burns, P. Burns, 2006-05 A revision guide for the AQA English specification aimed at the more advanced student looking to boost his/her grade to A As well as the normal revision material it explores advanced skills and techniques necessary to reach the very top      **Rethinking and Reviving Subject English** Pete Bennett, Louise Lambert, Rob Smith, 2022-09-27 This book invites readers to engage with the rich and complex debates of contemporary English education outlining new possibilities to revive the teaching of English Bringing together diverse voices and insights from educators in English across the primary secondary further and higher education phases the book offers reflections and critical engagement with the lived experiences of English teachers and pupils in contemporary educational spaces Each chapter includes example vignettes from classrooms which tell something of the story of English teaching today The book considers how politics and policy have worked to close the opportunities of the English classroom for self expression and critical engagement with the world a murder The authors then offer an exploration of the opportunities for a re imagining of English the murmurs of teachers and pupils that resist such closures The chapters explore new thinking new practices and new possibilities for English classrooms as inclusive emancipatory critical and creative spaces Offering a thoughtful and hopeful dialogue from practising English teacher researchers the book will be essential reading for researchers and students of English language and literature education as well as trainee teachers of English      **Learning to Teach Mathematics in the Secondary School** Sue Johnston-Wilder, Clare Lee, David Pimm, 2010-09-13 What is the role of mathematics in the secondary classroom What is expected of a would be maths teacher How is mathematics best taught and learnt Learning to Teach Mathematics in the Secondary School combines theory and practice to present a broad introduction to the opportunities and challenges of teaching mathematics in the modern secondary school classroom Written specifically with the new and student teacher in mind the book covers a wide range of issues related to the teaching of mathematics including The role of ICT Assessment for Learning NEW Using mathematics in context NEW Communicating mathematically Planning mathematics lessons Including special needs pupils Teaching mathematics post 16 Professional Development Already a major text for many university teaching courses this fully revised third edition takes into account new developments in the National Curriculum as well as recent changes to the standards for Qualified Teacher Status Featuring two brand new chapters a glossary of useful terms addresses for resources and organisations and tasks designed to prompt critical reflection and support thinking and writing at Masters level this book will help you make the most of school experience during your training and beyond Designed for use as a core textbook this new edition of Learning to Teach Mathematics in the Secondary School provides essential guidance and advice for all trainee and practising teachers of secondary mathematics      **Resources in Education** , 1984-10      **Challenges to Teacher Education in Difficult Economic Times** Joan Stephenson, Lorraine

Ling,2013-10-23 Teacher education in a financial crisis what are the consequences and how can probity be maintained  
Education like most other parts of everyday life is experiencing the challenges brought about by global financial constrictions  
This book presents the experiences and views of practising teacher educators from multiple countries and continents on how the melt down in world economics has affected and will continue to affect teacher education and concomitant experiences in schooling The ramifications are seen to extend into every aspect of teacher preparation continuing staff development and teacher support and there are significant implications for the quality of teaching and learning and the ethos and standing of the process of education as a whole Drawing on educational theory and social political and economic discourses the book addresses issues such as policy philosophy organisation funding resources modes of teaching and learning curricular change recruitment and retention amongst others and provides a snap shot across diverse contexts It aims to provide an evaluative analytical but reflective picture of teacher education in the light of the world economic crisis whilst exploring good practice and suggesting future strategies to develop the quality of teacher education and professional support teaching and learning The volume provides an insight into the need for a new paradigm for teacher education one that involves teacher educators in devising a discourse of positive and radical change It will be a valuable resource for teacher educators educational leaders policy makers educational commentators and teachers seeking to engage with the scholarship of teaching as a means to engage in continuous professional development

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coronal sections external surface views labeled superior lateral inferior note check out the prototype glossary on section 1240 click on the labels to view the glossary definitions see also the sheep brain dissection guide at the university of scranton

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