



Federal Board SSC-I Examination
Mathematics Model Question Paper
 (Science Group)

Time allowed: 2.40 hours

Total Marks: 60

Note: Attempt any nine parts from Section 'B' and any three questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly. Log book and graph paper will be provided on demand.

SECTION – B (Marks 36)

Q.2 Attempt any **NINE** parts from the following. All parts carry equal marks. $(9 \times 4 = 36)$

- i. If $A = \begin{bmatrix} 1 & 0 \\ 2 & 3 \end{bmatrix}$
 - (a) Find A^t
 - (b) Find $A - A^t$
 - (c) Also check if $A - A^t$ is Skew-Symmetric.
- ii. Show that $\left(\frac{x^a}{y^5}\right)^{a+b} \cdot \left(\frac{x^b}{y^2}\right)^{2+c} \cdot \left(\frac{x^c}{y^4}\right)^{c+a} = 1$
- iii. Use logarithm to find the value of $\sqrt[4]{25.47} \times \sqrt[3]{342.2}$
- iv. If $x = \frac{\sqrt{7}+\sqrt{2}}{\sqrt{7}-\sqrt{2}}$, find the values of $x + \frac{1}{x}$ and $x^2 + \frac{1}{x^2}$
- v. Factorize $(x-1)(x-2)(x+3)(x+4) + 6$
- vi. Find the value of k for which the expression $4x^4 - 12x^3 + 37x^2 - 42x + k$ is a perfect square
- vii. If $x + 2y = 5$ and $3x - y = 1$
 - (a) Draw the graph of above equations on the same plane.
 - (b) Do the lines intersect?
 - (c) What is the solution of given lines?

Note: Candidates can make their own grid on the answer sheet.
- viii. Use the distance formula to check whether or not the points (1, 1), (-2, -8) and (4, 10) lie on a straight line.
- ix. In the given figure, $\overline{AB} \cong \overline{CB}$ and $\angle 1 \cong \angle 2$
 Prove that $\triangle ABD \cong \triangle CBE$
- x. The distances of the point of concurrency of the medians of a triangle from its vertices are respectively 1.2cm, 1.4cm, 1.6cm. Find the lengths of its medians.
- xi. Any point on the bisector of an angle is equidistant from its arms. Prove it.

High School Math Model Paper 2014

**Simon Cheung, Fu Wang, Lam
Kwok, Petra Poulová**



High School Math Model Paper 2014:

A Practice-based Model of STEM Teaching Alpaslan Sahin, 2015-07-21 The STEM Students on the Stage SOS TM model was developed by Harmony Public Schools with the goal of teaching rigorous content in an engaging fun and effective way In this book you will learn that the STEM SOS model is not only helping students learn STEM content and develop 21st century skills but also helping teachers improve their classroom climate through increased student teacher communication and a reduction in classroom management issues There are at least two ways in which this book is innovative First you will find student videos and websites associated with QR codes readers can use their QR readers to watch student videos related to the content in the chapter and see student e portfolio samples at their Google sites This provides the opportunity to see that what is discussed in the book actually happened Second the book is not about a theory it is an actual implemented model that has evolved through the years and has been used in more than 25 schools since 2012 Every year the model continues to be improved to increase its rigor and ease of implementation for both teachers and students In addition to using the book as a classroom teacher resource and guide it can also be used as a textbook in advanced graduate level curriculum and instruction educational leadership and STEM education programs Therefore STEM educators leaders pre service and in service teachers and graduate students will all benefit from reading this book Appendices will be one of the favorite aspects of this book for teachers who are constantly looking for ready to use student and teacher handouts and activities Full handouts including formative and summative assessments materials and grading rubrics will provide an opportunity for teachers and curriculum directors to understand the ideas and secrets behind the STEM SOS model Lastly STEM directors will find this to be one of the best STEM teaching model examples on the market because the model has fully accessible student and teacher handouts assessment materials rubrics and hundreds of student products e portfolios including video presentations and project brochures online

Personalized Learning Simon Cheung, Fu Wang, Lam Kwok, Petra Poulová, 2023-10-24 This self contained monograph reports the recent approaches methods and practices of technology enabled personalized learning It serves to provide some useful references for researchers and practitioners in the field in conceptualizing and deploying personalized learning Personalized learning emphasizes student centred learning that addresses individual learning strengths needs skills and interests and allows flexibility in the learning mode process time and space where students can take ownership of their learning It has been practiced in educational institutions at both K 12 and higher education level and as evident from several successful cases is an enabler of personalized learning Educational technology incorporated with other forms of innovative pedagogical practices such as blended learning makes personalized learning a reality to achieve its aims effectively and efficiently This book begins with a critical review on the features and trends of personalized learning This is followed by a number of case studies on personalized learning practices with promising results The latest research findings on the approaches methods and strategies on design and implementation of

personalized learning are then reported Lastly the prospects of personalized learning are discussed All these provide some useful references for researchers and practitioners in the field in conceptualizing and deploying personalized learning Personalized Learning will be a key resource for academics researchers and advanced students of education instructional design and technology educational research educational technology research methods STEM Education information and communications technology and curriculum and instruction The chapters included in this book were originally published as a special issue of Interactive Learning Environments

Mathematics Teaching and Professional Learning in sub-Saharan Africa Kakoma Luneta, 2021-12-09 The book represents a crop of wide ranging research conducted by renowned scholars in sub-Saharan Africa revolving around mathematics teaching and professional development programs for mathematics teachers The research based proposals and actual how to conduct professional development initiatives that enhance effective mathematics instruction are rooted in teacher input and informed by learners errors and misconceptions The book provides a comprehensive snapshot on mathematics teaching learning and effective professional development programmes for mathematics teachers in sub-Saharan Africa It is the only research output that advances and disseminates issues of mathematics education and research in the region with input from South Africa Kenya Rwanda Uganda Malawi Namibia Lesotho Ethiopia and Zimbabwe

Cross Reality and Data Science in Engineering Michael E. Auer, Dominik May, 2020-08-20 Today online technologies are at the core of most fields of engineering and society as a whole This book discusses the fundamentals applications and lessons learned in the field of online and remote engineering virtual instrumentation and other related technologies like Cross Reality Data Science Big Data Internet of Things Industrial Internet of Things Industry 4.0 Cyber Security and M2M Smart Objects Since the first Remote Engineering and Virtual Instrumentation REV conference in 2004 the event has focused on the use of the Internet for engineering tasks as well as the related opportunities and challenges In a globally connected world interest in online collaboration teleworking remote services and other digital working environments is rapidly increasing In this context the REV conferences discuss fundamentals applications and experiences in the field of Online and Remote Engineering as well as Virtual Instrumentation Furthermore the conferences focus on guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning MOOCs MOOLs and open resources This book presents the proceedings of REV2020 on Cross Reality and Data Science in Engineering which was held as the 17th in series of annual events It was organized in cooperation with the Engineering Education Transformations Institute and the Georgia Informatics Institutes for Research and Education and was held at the College of Engineering at the University of Georgia in Athens GA USA from February 26 to 28 2020

Theory and Practice of Lesson Study in Mathematics Rongjin Huang, Akihiko Takahashi, João Pedro da Ponte, 2019-05-28 This book brings together and builds on the current research efforts on adaptation conceptualization and theorization of Lesson Study LS It synthesizes and illustrates major perspectives for theorizing LS and enriches the

conceptualization of LS by interpreting the activity as it is used in Japan and China from historical and cultural perspectives Presenting the practices and theories of LS with practicing teachers and prospective teachers in more than 10 countries it enables the reader to take a comparative perspective Finally the book presents and discusses studies on key aspects of LS such as lesson planning post lesson discussion guiding theories connection between research and practice and upscaling Lesson Study which has originated in Asia as a powerful effective professional development model has spread globally Although the positive effects of lesson study on teacher learning student learning and curriculum reforms have been widely documented conceptualization of and research on LS have just begun to emerge This book including 38 chapters contributed by 90 scholars from 21 countries presents a truly international collaboration on research on and adaptation of LS and significantly advances the development of knowledge about this process Chapter 15 How Variance and Invariance Can Inform Teachers Enactment of Mathematics Lessons of this book is available open access under a CC BY 4 0 license at link.springer.com Theory and Practice of Lesson Study in Mathematics An International Perspective shows that the power of Lesson Study to transform the role of teachers in classroom research cannot be explained by a simple replication model Here we see Lesson Study being successful internationally when its key principles and practices are taken seriously and are adapted to meet local issues and challenges Max Stephens Senior research fellow at TheUniversity of Melbourne It works Instruction improves learning improves Wide scale Enduring Deep impact Lesson study has it When something works as well as lesson study does while alternative systems for improving instruction fail or only succeed on small scale or evaporate as quickly as they show promise it is time to understand how and why lesson study works This volume brings the research on lesson study together from around the world Here is what we already know and here is the way forward for research and practice informed by research It is time to wake up and pay attention to what has worked so well on wide scale for so long Phil Dara A leading author of the Common Core State Standards of Mathematics in the U S *Mathematics and Multi-Ethnic Students* Yvelyne Germain-McCarthy, 2017-05-25 *Mathematics and Multi Ethnic Students* provides detailed profiles of teachers across the nation who have implemented effective mathematics instruction for diverse student populations In this revised edition Yvelyne Germain McCarthy expands upon the popular case studies and adds two new chapters to highlight the latest educational research and practices that are reflected in the case studies A third new chapter introduces the concept of the Life Long Learning Laboratory where courageous questions on issues such as the impact of race on student learning are discussed Featuring useful framing tools including the Discussion with Colleagues and Commentary sections *Mathematics and Multi Ethnic Students* translates concrete instances of access and equity into generalized problem solving methods for promoting ethnic diversity across grade levels An important resource for pre service and in service educators researchers administrators and policy makers this volume highlights the work of teachers who have gone beyond mere awareness of reform recommendations in mathematics instruction By uniting the goals of

multicultural education with those of the mathematics curriculum educators will learn to conceptualize and implement best practices for effective equitable teaching and learning of mathematics for their students

Illuminating and Advancing the Path for Mathematical Writing Research Colonnese, Madelyn W., Casa, Tutita M., Cardetti, Fabiana, 2023-11-20

Mathematical writing is essential for students math learning but it is often underutilized due to unclear guidelines

Mathematical writing is a mode of communication that provides teachers access to their students thinking and importantly offers students an opportunity to deepen their mathematical understanding engage in mathematical reasoning and learn a fundamental way to communicate mathematically Notably one needs to be able to judiciously combine mathematical symbols representations and text However more research is needed to exemplify the qualities of mathematical writing develop implementation methods and support teachers **Illuminating and Advancing the Path for Mathematical Writing Research** is a necessary comprehensive resource designed to enhance mathematical writing and promote equitable learning This research book provides a comprehensive understanding of the current state of mathematical writing and illuminates various perspectives on moving the teaching and learning of K-12 mathematical writing forward Mathematical writing is an important yet underutilized component of mathematical discourse and this book offers further insight into understanding what it means to write mathematically for mathematics educators and researchers It informs with research based implementation strategies and creates purposeful professional learning opportunities Ultimately K-12 students will benefit from a more informed field because they will have access to a vital mode of mathematical reasoning and communication

Mathematical Teaching and Learning Katherine M. Robinson, Donna Kotsopoulos, Adam K. Dubé, 2023-06-15 This book focusses on teaching and learning in elementary and middle school mathematics and suggests practices for teachers to help children be successful mathematical thinkers Contributions from diverse theoretical and disciplinary perspectives are explored Topics include the roles of technology language and classroom discussion in mathematics learning the use of creativity visuals and teachers physical gestures to enhance problem solving inclusive educational activities to promote children's mathematics understanding how learning in the home can enhance children's mathematical skills the application of mathematics learning theories in designing effective teaching tools and a discussion of how students teachers teacher educators and school boards differentially approach elementary and middle school mathematics This book and its companion **Mathematical Cognition and Understanding** take an interdisciplinary perspective to mathematical learning and development in the elementary and middle school years The authors and perspectives in this book draw from education neuroscience developmental psychology and cognitive psychology The book will be relevant to scholars educators in the field of mathematics education and also those in childhood development and cognition Each chapter also includes practical tips and implications for parents as well as for educators and researchers

Exploring the Mathematical Education of Teachers Using TEDS-M Data Maria Teresa Tatto, Michael C. Rodriguez, Wendy M. Smith, Mark D. Reckase, Kiril Bankov, 2018-08-16 This book uses the publicly available

TEDS M data to answer such questions as How does teacher education contribute to the learning outcomes of future teachers Are there programs that are more successful than others in helping teachers learn to teach mathematics How does the local and national policy environment contribute to teacher education outcomes It invites readers to explore these questions across a large number of international settings The importance of preparing future mathematics teachers has become a priority across many nations Across the globe nations have allocated resources and expertise to this endeavour Yet in spite of the importance accorded to teacher education not much is known about different approaches to preparing knowledgeable teachers and whether these approaches do in fact achieve their purpose The Mathematics Teacher Education and Development Study TEDS M is the first and to date the only cross national study using scientific and representative samples to provide empirical data on the knowledge that future mathematics teachers of primary and secondary school acquire in their teacher education programs The study addresses the central importance of teacher knowledge in learning to teach mathematics by examining variation in the nature and influence of teacher education programs within and across countries The study collected data on teacher education programs structure curriculum and opportunities to learn on teacher educators characteristics and beliefs and on future mathematics teachers individual characteristics beliefs and mathematics and pedagogical knowledge across 17 countries providing a unique opportunity to explore enduring questions in the field

The Mathematics Lesson-Planning Handbook, Grades K-2 Beth McCord Kobett, Ruth Harbin Miles, Lois A.

Williams, 2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it is a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education Your blueprint to planning K 2 math lessons for maximum impact and understanding Not sure of tomorrow morning's lesson plan Or maybe you feel it isn't tailored enough for your students needs What do you do For that and more help is here The Mathematics Lesson Planning Handbook Grades K 2 Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision making process of planning K 2 math lessons that are purposeful rigorous and coherent Instructional experts Beth McCord Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you're planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks

and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students **Building Support for Scholarly Practices in Mathematics Methods** Signe E.

Kastberg,Andrew M. Tyminski,Alyson E. Lischka,Wendy B. Sanchez,2017-09-01 Building Support for Scholarly Practices in Mathematics Methods is the product of collaborations among over 40 mathematics teacher educators MTEs who teach mathematics methods courses for prospective PreK 12 teachers in many different institutional contexts and structures Each chapter unpacks ways in which MTEs use theoretical perspectives to inform their construction of goals activities designed to address those goals facilitation of activities and ways in which MTEs make sense of experiences prospective teachers have as a result The book is organized in seven sections that highlight how the theoretical perspective of the instructor impacts scholarly inquiry and practice The final section provides insight as we look backward to reflect and forward with excitement moving with the strength of the variation we found in our stories and the feeling of solidarity that results in our understandings of purposes for and insight into teaching mathematics methods This book can serve as a resource for MTEs as they discuss and construct scholarly practices and as they undertake scholarly inquiry as a means to systematically examine their practice **Raymond Smullyan on Self Reference** Melvin Fitting,Brian Rayman,2018-01-11 This book

collects for the first time in one volume contributions honoring Professor Raymond Smullyan s work on self reference It serves not only as a tribute to one of the great thinkers in logic but also as a celebration of self reference in general to be enjoyed by all lovers of this field Raymond Smullyan mathematician philosopher musician and inventor of logic puzzles made a lasting impact on the study of mathematical logic accordingly this book spans the many personalities through which Professor Smullyan operated offering extensions and re evaluations of his academic work on self reference applying self referential logic to art and nature and lastly offering new puzzles designed to communicate otherwise esoteric concepts in mathematical logic in the manner for which Professor Smullyan was so well known This book is suitable for students scholars and logicians who are interested in learning more about Raymond Smullyan s work and life **OECD Economic Surveys:**

Israel 2018 OECD,2018-03-11 Israel s economy continues to register remarkable macroeconomic and fiscal performance Growth is strong and unemployment is low The external surplus is comfortable and the public debt to GDP ratio already well below the OECD average is still falling However Israeli society remains marked **Psychological and Pedagogical**

Considerations in Digital Textbook Use and Development Railean, Elena,2015-04-30 This book offers balanced

coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives offering an emphasis on assessment mechanisms and learning theory At the Intersection of Selves and Subject Ellyn Lyle, 2017-08-28 At the Intersection of Selves and Subject Exploring the Curricular Landscape of Identity aims to raise awareness of the inextricability of our teaching and learning selves and the subjects with whom and which we engage By exploring identity at this intersection we invite scholars and practitioners to reconceptualize relationships with students curriculum and their varied contexts Our hope is to encourage authenticity consciousness and criticality that will foster more liberating ways of teaching and learning This collection will be useful for pre and in service teachers teacher educators and educational researchers It is a valuable resource for teacher education courses such as Curriculum Studies Reflexive Practice Philosophy of Education Sociology of Education Teaching Methods Current Issues in Education Collaborative Inquiry and Narrative Inquiry At the Intersection of Selves and Subject lays bare the deepest under layers of the teacher self and subject with new energy The sharing of reflexive inquiries in ethical self consciousness liberates and unwraps queries into pedagogical practice This is an important book for all educators but especially for pre service teachers as they consider or challenge the donning of teacher identity Pauline Sameshima Canada Research Chair in Arts Integrated Studies Lakehead University and Editor in Chief of the Journal of the Canadian Association for Curriculum Studies A pendant of images and texts this collection is a dazzling display of Ellyn Lyle's insight that understanding self is a way to understand other and society That and other affirmations are depicted narratively and theoretically across and within indigenities singular exceptional identities and paradoxical and inherently political identities This collection invites us to work from within to reconstruct the self professionally This pulsating portrait of juxtapositions teaches transpositions and extricates intertextualities Through resolve we are preserving this fragile someday shared space for being Open this book as entering one such space study what this pendant refracts in you William F Pinar Canada Research Chair University of British Columbia Vancouver Improving Teaching through Observation and Feedback Alyson L. Lavigne, Thomas L Good, 2015-02-11 In response to Race to the Top schools nationwide are rapidly overhauling their teacher evaluation processes Often forced to develop and implement these programs without adequate extra institutional support or relevant experience already taxed administrators need accessible and practical resources Improving Teaching through Observation and Feedback brings cutting edge research and years of practical experience directly to those who need them In five concise chapters Thomas Good and Alyson Lavigne briefly outline the history of RtT and then move quickly and authoritatively to a discussion of best practices This book is a perfect resource for administrators reworking their processes for new evaluation guidelines Physical and Mathematical Modeling of Earth and Environment Processes (2018) V. I. Karev, Dmitry Klimov, Konstantin Pokazeev, 2019-03-24 This book entitled Physical and Mathematical Modeling of Earth and Environment Processes is the result of a collaborative work after the 4th international scientific youth forum held at the IPMech RAS on

November 13 2018 The book includes theoretical and experimental studies of processes in the atmosphere oceans the lithosphere and their interaction environmental issues problems of human impact on the environment methods of geophysical research A special focus is given to the extraction of hydrocarbon resources including unconventional sources This book also focuses on new approaches to the development of hydrocarbon fields very important in today's geopolitical conditions The book presents new results of the experimental and theoretical modeling of deformation fracture and filtration processes in the rocks in connection with issues of creating scientific fundamentals for new hydrocarbon production technologies New Developments in Pathways Towards Diversity and Inclusion in STEM: A United States Perspective Alexander Gates, Juan Gilbert, Chris Botanga, Kim Nguyen, Bonita London, 2022-10-17 The Louis Stokes Alliances for Minority Participation LSAMP program of the US National Science Foundation has been a primary force for raising the success and graduation of minority students in STEM for 30 years Increasing the number of underrepresented students earning baccalaureate degrees and entering graduate school in STEM is the goal of LSAMP This goal has been nearly achieved through the formation of alliances of degree granting institutions of higher learning varying from community colleges to major research institutions Currently there are 59 alliances including more than 400 institutions LSAMP is responsible for more than 650 000 bachelor's degrees earned by minority students in STEM The papers for this Research Topic should focus on the use of LSAMP activities programs and collaborations to develop pathways to success and graduation of STEM majors from minority groups that underrepresented in STEM These pathways can include any segment from pre college through graduate school Areas of special interest include mentoring research experiences transitions between levels and novel approaches for retention The studies should be research based and rigorous They can be pure research studies curriculum and design or literature reviews but they must be at a cutting edge level and be subject to detailed review and assessment The Underrepresentation of Women in Science: International and Cross-Disciplinary Evidence and Debate Stephen J. Ceci, Wendy M. Williams, Shulamit Kahn, 2018-04-20 There is no shortage of articles and books exploring women's underrepresentation in science Everyone is interested academics politicians parents high school girls and boys women in search of college majors administrators working to accommodate women's educational interests the list goes on But one thing often missing is an evidence based examination of the problem uninfluenced by personal opinions accounts of lived experiences anecdotes and the always encroaching inputs of popular culture This is why this special issue of Frontiers in Psychology can make a difference In it a diverse group of authors and researchers with even more diverse viewpoints find themselves united by their empirical objective approaches to understanding women's underrepresentation in science today The questions considered within this special issue span academic disciplines methods levels of analysis and nature of analysis what these articles share is their scholarly evidence based approach to understanding a key issue of our time Handbook of Student Engagement Interventions Jennifer A. Fredricks, Amy L. Reschly, Sandra L. Christenson, 2019-05-04 Handbook of Student Engagement

Interventions Working with Disengaged Students provides an understanding of the factors that contribute to student disengagement methods for identifying students at risk and intervention strategies to increase student engagement With a focus on translating research into best practice the book pulls together the current research on engagement in schools and empowers readers to craft and implement interventions Users will find reviews on evidence based academic behavioral social mental health and community based interventions that will help increase all types of engagement The book looks at ways of reducing suspensions through alternative disciplinary practices the role resiliency can play in student engagement strategies for community and school collaborations in addressing barriers to engagement and what can be learned from students who struggled in school but succeeded later in life It is a hands on resource for educators school psychologists researchers and students looking to gain insight into the research on this topic and the strategies that can be deployed to promote student engagement Presents practical strategies for engagement intervention and assessment Covers early warning signs of disengagement and how to use these signs to promote engagement Reviews contextual factors families peers teachers related to engagement Focuses on increasing engagement and school completion for all students Emphasizes multidimensional approaches to disengagement

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High School Math Model Paper 2014 Introduction

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