

Time—3 hours

Full marks—60 + 40 = 100

Creative Questions

Marks—60

[N.B.—The figures in the right margin indicate full marks. Read the following stems attentively and answer six questions taking at least one from each group.]

Part A—Arithmetic

- | | Marks |
|---|-------------|
| 1. The length of a rectangular garden is 40 meters and breadth is 30 meters. There is a 3 meters wide road inside around the garden. The road is carpeted with the length of a brick 25 cm and breadth 12.5 cm.
(a) Find the area of the garden.
(b) Find the area of the road.
(c) Find the number of bricks for carpeting the road. | 2
4
4 |
| 2. Babul Hossain sold a goat at the loss of 8%. If it were sold at Tk. 800 more, there would be a profit of 8%. After that he deposited money as same as the cost price of the goat in a bank at the rate of profit 10% per annum in 3 years.
(a) Find the simple profit of Tk. 800 at the rate of Tk. 8 per annum in 3 years.
(b) Find out the cost price of the goat.
(c) If total money save in bank, what will be the difference of simple profit and compound profit? | 2
4
4 |

Part B—Algebra

- | | |
|--|-------------|
| 3. $U = \{x : x \text{ natural number and } x < 8\}$;
$P = \{1, 3, 5\}$
$Q = \{x : x \text{ natural number and } 1 < x \leq 7\}$
and $R = \{2, 4, 6\}$
(a) Determine P^c .
(b) Find $(P \cap Q) \cup (Q \cup R)$.
(c) Prove that $(Q \cup R)^c = Q^c \cap R^c$. | 2
4
4 |
| 4. $3x + 2y = 12$, $2x + 3y = 13$ are simple equations.
(a) Verify (4, 0) for first equation.
(b) Solve the both equations using the method of elimination.
(c) Find the solution from the graph. | 2
4
4 |
| 5. $x + \frac{1}{x} = 5$ is an Algebraic equation, where $x > 0$.
(a) Find the value of $3x + \frac{3}{x}$.
(b) Find the value of $x^4 + \frac{1}{x^4}$.
(c) Prove that, $x^2 - \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$. | 2
4
4 |

Part C—Geometry

- | | |
|--|-------------|
| 6. ABCD is a rectangle, where $AB = 3$ cm, the diagonals AC and BD of the rectangle intersect at O.
(a) Draw the figure mentioned in the stem.
(b) Prove that, $AC = BD$ and $AO = CO$, $BO = DO$.
(c) If AB is the length of one side and $AC = 5$ cm. is a diagonal, then construct the rhombus. [The sign of construction and statement are essential] | 2
4
4 |
|--|-------------|

[Please turn over]

Math Question 2014 Jsc

**Bilge Mutlu, Ginevra Castellano, James
Everett Young, Séverin
Lemaignan, Adriana Tapus**

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Teaching Mathematics Using Popular Culture Elana Reiser, 2015-11-09 Mathematics teachers often struggle to motivate their students One way to cultivate and maintain student interest is for teachers to incorporate popular media into their methodology Organized on the subject strands of the Common Core this book explores math concepts featured in contemporary films and television shows and offers numerous examples high school math teachers can use to design lessons using pop culture references Outlines for lessons are provided along with background stories and historical references

NASA's Human Space Exploration United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space, 2012 *SCHOLAR -- a Scientific Celebration Highlighting Open Lines of Arithmetic Research* A. C. Cojocaru, C. David, F. Pappalardi, 2015-12-22 M Ram Murty has had a profound impact on the development of number theory throughout the world To honor his mathematical legacy a conference focusing on new research directions in number theory inspired by his most significant achievements was held from October 15 17 2013 at the Centre de Recherches Math matiques in Montr al This proceedings volume is representative of the broad spectrum of topics that were addressed at the conference such as elliptic curves function field arithmetic Galois representations functions modular forms and automorphic forms sieve methods and transcendental number theory This book is co published with the Centre de Recherches Math matiques **International Practices to Promote Budget Literacy** Harika Masud, Helene Pfeil, Sanjay Agarwal, Alfredo Gonzalez Briseno, 2017-08-09 Budget literacy is defined as the ability to read decipher and understand public budgets to enable and enhance meaningful citizen participation in the budget process It is comprised of two main parts i a technical understanding of public budgets including familiarity with government spending tax rates and public debt and ii the ability to engage in the budget process comprising of practical knowledge on day to day issues as well as an elementary understanding of the economic social and political implications of budget policies the stakeholders involved and when and how to provide inputs during the annual budget cycle Given that no international standards or guidelines have been established for budget literacy education to date this book seeks to address this gap by taking stock of illustrative initiatives promoting budget literacy for youth in selected countries The underlying presumption is that when supply side actors in the budget process governments simplify and disseminate budget information for demand side actors citizens this information will then be used by citizens to provide feedback on the budget However since citizens are often insufficiently informed about public budgets to constructively participate in budget processes one way to empower them and to remedy the problem of budget illiteracy is to provide budget literacy education in schools to youth helping them evolve into civic minded adults with the essential knowledge needed for analyzing their government s fiscal policy objectives and measures and the confidence and sense of social responsibility to participate in the oversight of public resources This book elaborates on approaches learning outcomes pedagogical strategies and assessment approaches for budget literacy education and presents

lessons that are relevant for the development improvement or scaling up of budget literacy initiatives Parallel Computing: On the Road to Exascale G.R. Joubert,H. Leather,M. Parsons,2016-04-28 As predicted by Gordon E Moore in 1965 the performance of computer processors increased at an exponential rate Nevertheless the increases in computing speeds of single processor machines were eventually curtailed by physical constraints This led to the development of parallel computing and whilst progress has been made in this field the complexities of parallel algorithm design the deficiencies of the available software development tools and the complexity of scheduling tasks over thousands and even millions of processing nodes represent a major challenge to the construction and use of more powerful parallel systems This book presents the proceedings of the biennial International Conference on Parallel Computing ParCo2015 held in Edinburgh Scotland in September 2015 Topics covered include computer architecture and performance programming models and methods as well as applications The book also includes two invited talks and a number of mini symposia Exascale computing holds enormous promise in terms of increasing scientific knowledge acquisition and thus contributing to the future well being and prosperity of mankind A number of innovative approaches to the development and use of future high performance and high throughput systems are to be found in this book which will be of interest to all those whose work involves the handling and processing of large amounts of data Computer Algebra in Scientific Computing François Boulier,Matthew England,Timur M. Sadykov,Evgenii V. Vorozhtsov,2021-08-16 This book constitutes the proceedings of the 23rd International Workshop on Computer Algebra in Scientific Computing CASC 2021 held in Sochi Russia in September 2021 The 24 full papers presented together with 1 invited talk were carefully reviewed and selected from 40 submissions The papers cover theoretical computer algebra and its applications in scientific computing **Commerce, Justice, Science, and Related Agencies Appropriations for 2015** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2014 *Rising Stars in Human-Robot Interaction* Bilge Mutlu,Ginevra Castellano,James Everett Young,Séverin Lemaignan,Adriana Tapus,2022-08-11 **Advances in Computer Algebra** Carsten Schneider,Eugene Zima,2018-02-26 This book discusses the latest advances in algorithms for symbolic summation factorization symbolic numeric linear algebra and linear functional equations It presents a collection of papers on original research topics from the Waterloo Workshop on Computer Algebra WWCA 2016 a satellite workshop of the International Symposium on Symbolic and Algebraic Computation ISSAC 2016 which was held at Wilfrid Laurier University Waterloo Ontario Canada on July 23 24 2016 This workshop and the resulting book celebrate the 70th birthday of Sergei Abramov Dorodnicyn Computing Centre of the Russian Academy of Sciences Moscow whose highly regarded and inspirational contributions to symbolic methods have become a crucial benchmark of computer algebra and have been broadly adopted by many Computer Algebra systems **Nature of Science for Social Justice** Hagop A. Yacoubian,Lena Hansson,2020-09-08 This edited volume brings closer two contemporary science education research areas Nature of Science NOS and Social

Justice SJ It starts a dialogue on the characteristics of NOS for SJ with the purpose of advancing the existing discussion and creating new avenues for research Using a variety of approaches and perspectives the authors of the different chapters engage in a dialogue on the construct of NOS for SJ its characteristics as well as ways of addressing it in science classrooms Issues addressed are related to why a school science aiming at SJ should address NOS what NOS related content skills and attitudes form the basis when aiming at SJ and how school science can address NOS for SJ Through a set of theoretical and empirical chapters the authors suggest answers but they also pose new questions on what NOS for SJ can mean and what issues need to be taken into consideration in future research and practice Chapter Nature of Science for Social Justice Why What and How is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) *Education Reimagined: The Impact of Advanced Technologies on Learning* Mohammad Khalil, Mohammed Saqr, Sonsoles López-Pernas, Isabel Hilliger, 2024-12-18 The last decade has seen significant progress in technology particularly in the fields of Artificial Intelligence and machine learning which have had a profound impact on numerous industries including education The integration of technology in education has fundamentally altered the landscape of learning where data becomes a crucial component to provide insights into for example how students learn when and where additional support is needed Employing educational data is proving to be a catalyst for innovation in education opening up new possibilities for students and educators alike The focus of this Research Topic is to explore the impact of recent technological innovations and advances such as AI AI powered Chatbots Learning Analytics Virtual and Augmented Reality and remote and virtual labs on different education systems both from the educational and the psychological perspective The scope is twofold on the one hand examining the use of these advanced technologies in learning and teaching activities and on the other hand teaching students about these technologies and understanding the impact of including them in new education policies and curricula including teaching of AI data science analytics and the ethical implications of data The Research Topic seeks to provide insightful and thought provoking perspectives on how technology is being utilized to enhance the learning experience for students of all ages Both in higher education and K12 education and their transition to higher education By gathering experts in psychology education and technology this Research Topic aims to present research findings and best practices and to stimulate discussions on the role of technology in shaping the future of education The ultimate objective is to inspire innovation and to improve the education of future generations through advanced technologies **Social Sciences Index**, 1997 □□ □□ □□, 2020-11-13 1 19 1 000 1 0 1% 19 Think Like a Rocket Scientist Moonshot NASA □□□□□□□ □□□□□ □, 2021-05-25 etc all in Bloomberg Markets 2 6 Paypal Visa USDC Microstrategy Square NFT SpaceX 2009 Finn Brunton Spam A Shadow History of the Internet Communication and Obfuscation A User s Guide for Privacy and Protest *Mathematics*, 2024

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