

সময়—৩ ঘণ্টা

পূর্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান—৬০

দ্রষ্টব্য :—জান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রতিটি বিভাগ থেকে কমপক্ষে একটি করে প্রশ্ন নিয়ে মোট ছয়টি প্রশ্নের উত্তর দাও।

ক বিভাগ—পাঠ্যগণিত

- | | | মান |
|----|--|-------------|
| ১। | একটি অয়তাকার বাগানের দৈর্ঘ্য ৪০ মিটার এবং প্রস্থ ৩০ মিটার। বাগানের ভেতর চারিদিকে ৩ মিটার চওড়া একটি রাস্তা আছে। ২৫ সে.মি. দৈর্ঘ্য এবং ১২.৫ সে. মি. প্রস্থবিশিষ্ট ইট দিয়ে রাস্তাটি পাকা করা হলো।
(ক) বাগানের ক্ষেত্রফল নির্ণয় কর।
(খ) রাস্তার ক্ষেত্রফল নির্ণয় কর।
(গ) রাস্তাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর। | ২
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| ২। | বাবুল হোসেন ৮% ক্ষতিতে একটি ছাগল বিক্রয় করলেন। কিন্তু ছাগলটি ৮০০ টাকা বেশি মূল্যে বিক্রয় করলে তাঁর ৮% লাভ হত। পরবর্তীতে তিনি ছাগলটির ক্রয়মূল্যের সমপরিমাণ টাকা বার্ষিক ১০% মুনাফায় ৩ বছরের জন্যে ব্যাংকে জমা রাখলেন।
(ক) ৮% সরল মুনাফায় ৮০০ টাকার ৩ বছরের মুনাফা নির্ণয় কর।
(খ) ছাগলটির ক্রয়মূল্য নির্ণয় কর।
(গ) উক্ত টাকা ব্যাংকে জমা রাখলে সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে? | ২
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খ বিভাগ—বীজগণিত

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| ৩। | $U = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } x < 8\};$
$P = \{1, 3, 5\};$
$Q = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } 1 < x \leq 7\}$ এবং
$R = \{2, 4, 6\}.$
(ক) P^c নির্ণয় কর।
(খ) $(P \cap Q) \cup (Q \cup R)$ নির্ণয় কর।
(গ) প্রমাণ কর যে, $(Q \cup R)^c = Q^c \cap R^c.$ | ২
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| ৪। | $3x + 2y = 12, 2x + 3y = 13$ দুটি সমীকরণ—
(ক) $(4, 0)$ বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কিনা যাচাই কর।
(খ) অপনয়ন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর।
(গ) লেখচিত্র থেকে সমীকরণদ্বয়ের সমাধান নির্ণয় কর। | ২
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| ৫। | $x + \frac{1}{x} = 5$ একটি বীজগাণিতিক সমীকরণ যেখানে $x > 0.$
(ক) $3x + \frac{3}{x}$ এর মান নির্ণয় কর।
(খ) $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর।
(গ) প্রমাণ কর যে, $x^2 - \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$ | ২
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গ বিভাগ—জ্যামিতি

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| ৬। | $ABCD$ একটি অয়তক্ষেত্র যার $AB = 3$ সে. মি. উহার AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে।
(ক) উল্লীপকের তথ্যগুলো ডিহের সাহায্যে প্রকাশ কর।
(খ) প্রমাণ কর যে, $AC = BD$ এবং $AO = CO, BO = DO.$
(গ) AB কে একটি বাহুর দৈর্ঘ্য এবং $AC = 5$ সে. মি.-কে একটি কর্ণের দৈর্ঘ্য ধরে একটি রহস্য অঙ্কন কর।
[অঙ্কনের চিত্র ও বিবরণ আবশ্যিক] | ২
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[পর পৃষ্ঠা দ্রষ্টব্য]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

Jsc Question Math 2014

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Jsc Question Math 2014:

Teaching Mathematics Using Popular Culture Elana Reiser, 2015-10-29 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 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.

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 Mathématiques in Montréal. This proceedings volume is representative of the broad spectrum of topics that were addressed at the conference, such as elliptic curves, function fields, 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 *Computer Algebra in Scientific Computing* François Boulrier,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

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)

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

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

Man's Destiny Unplugged Tanya Coley,2014-11-21 Mans Destiny Unplugged was given to me by God in 2004 Since then I have made a few attempts to fill the pages but did not get far In 2013 God told me to fill the pages with the story of my life I began to write and as I did everythingmany things which I had forgotten or never thought of came flooding my memory as if he was reminding me of what I needed to write Inside between the covers of this book you will find a riveting amazing encounter Because it is the story of my life it starts out a bit slow as I relive my childhood years but please keep reading because a little way in you will discover suspense intrigue and experiences that are so amazing that you will say no those cannot be true but they are and it is my story □□ □□ □□,2020-11-13 1 19 1 000 1 0 1% 19 Think Like a Rocket Scientist Moonshot NASA **Social Sciences Index** ,1997 □□□□□□ □□□□□ □,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

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