গণিত (বহুনির্বাচনি অভীক্ষা)

[১০০টি প্রশ্ন থেকে নব্বইটি প্রশ্নের উত্তর দাও : প্রতিটি প্রশ্নের মান ১]

পূর্ণমান-৩০

সময় : ৩০ মিনিট

১। সবচেয়ে ছোট মৌলিক সংখ্যা কোনটি?
  ⓐ ১ ⓑ ২ ⓒ ৩ ⓓ ৫

২। ০, ৩, ৮, ১৫, ২৪, ... এই প্যাটার্নে বহুপদ রাশি নিচের কোনটি?
  ⓐ ক² – ১ ⓑ ক² + ১
  ⓒ ২ক – ১ ⓓ ২ক + ১

৩। ১ + ২ + ৩ + ... + ৬০ = কত?
  ⓐ ১৬২০ ⓑ ১৭৫০
  ⓒ ১৮৩০ ⓓ ২০৬০

৪। প্রথম ২১টি বিজোড় সংখ্যার সমষ্টি কত?
  ⓐ ৪৪১ ⓑ ৪২০ ⓒ ৫০০ ⓓ ৫৪০

৫। মূলধন = P, মুনাফা-আসল = A, মুনাফার হার = r%, সময় = n হলে,
  i. I = Pnr
  ii. A = P + I
  iii. C = P(১ + r)ⁿ – P
  নিচের কোনটি সঠিক?
  ⓐ i ও ii ⓑ i ও iii ⓒ ii ও iii ⓓ i, ii ও iii

৬। ১২% হার মুনাফায় ৩০০০০ টাকার ২ বছরের চক্রবৃদ্ধি মুনাফা কত?
  ⓐ ৩৭৬৩২ টাকা ⓑ ৩৭৬৩২ টাকা
  ⓒ ৩৭৭০২ টাকা ⓓ ৩৬৭৩২ টাকা

৭। ৫০০ টাকার ৫% মুনাফায় ১ বছরের সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত?
  ⓐ ১২০ টাকা ⓑ ৬০ টাকা
  ⓒ ২০ টাকা ⓓ পার্থক্য নেই

☐ নিচের উদ্দীপকটি পড়ে (৮-১০)নং প্রশ্নের উত্তর দাও :
কামাল ব্যাংকে ৪% হার মুনাফায় ৫০০ টাকা জমা রাখলেন।

৮। ৫ বছর পর সরল মুনাফা কত হবে?
  ⓐ ১০০ টাকা ⓑ ১২৫ টাকা
  ⓒ ১৫০ টাকা ⓓ ২০০ টাকা

৯। ৩ বছরান্তে চক্রবৃদ্ধি মুনাফা কত হবে?
  ⓐ ৫৬০.৪০ টাকা ⓑ ৫৫০.৫০ টাকা
  ⓒ ৫৬২.৪০ টাকা ⓓ ৬৬০.৫০ টাকা

১০। ৩ বছরান্তে সরল ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে?
  ⓐ ১০০ টাকা ⓑ ৬০ টাকা
  ⓒ ৬২.৪০ টাকা ⓓ ২.৪০ টাকা

১১। $x^2 + 4y^2$ এর সাথে কত যোগ করলে তা পূর্ণবর্গ হবে?
  ⓐ 4xy ⓑ 2xy
  ⓒ –2xy ⓓ xy

১২। $x - y = 3$ এবং $xy = 10$ হলে, $(x + y)^2$ এর মান কত?
  ⓐ 31 ⓑ 40 ⓒ 43 ⓓ 49

১৩। নিচের তথ্যগুলি লক্ষ কর :
  i. $4ab = (a + b)^2 + (a - b)^2$
  ii. $(a + b)^2 = (a - b)^2 + 4ab$
  iii. $(x + a)(x + b) = x^2 + (a + b)x + ab$
  নিচের কোনটি সঠিক?
  ⓐ i ও ii ⓑ i ও iii
  ⓒ ii ও iii ⓓ i, ii ও iii

১৪। $(x + 4)(x + 2)$ কে দুইটি রাশির বর্গের অন্তররূপে প্রকাশ করলে নিচের কোনটি হবে?
  ⓐ $(x + 4)^2 - 2^2$ ⓑ $(x + 2)^2 - 1^2$
  ⓒ $(x + 3)^2 - 1^2$ ⓓ $(x + 3)^2 - 3^2$

১৫। $a + b = 10$, $ab = 5$ হলে, $(a^2 + b^2)^2$ এর মান কত?
  ⓐ 90 ⓑ 100
  ⓒ 810 ⓓ 8100

১৬। $\left(a + \frac{1}{a}\right)^2 = 3$ হলে, $a^3 + \frac{1}{a^3} =$ কত?
  ⓐ $\sqrt{3}$ ⓑ $2\sqrt{3}$ ⓒ 3 ⓓ 0

১৭। $2x + 2y = 8$, $x - y = 3$ হলে, $(x + y)^3 + (x - y)^3 =$ কত?
  ⓐ 81 ⓑ 90 ⓒ 91 ⓓ 92

১৮। $x - 1$, $x^2 - 1$, $x^3 - 1$ তিনটি বীজগাণিতিক রাশি যাদের—
  i. ল. সা. গু = $(x + 1)(x - 1)(x^2 + x + 1)$
  ii. গ. সা. গু = $(x + 1)(x - 1)$
  iii. যোগফল = $x^3 + x^2 + x - 3$
  নিচের কোনটি সঠিক?
  ⓐ i ও ii ⓑ ii ও iii
  ⓒ i ও iii ⓓ i, ii ও iii

১৯। $\frac{x^2 - 7x + 12}{x^2 - 9x + 20}$ এর লঘিষ্ঠ রূপ নিচের কোনটি?
  ⓐ $\frac{x - 3}{x - 5}$ ⓑ $\frac{x - 4}{x - 5}$
  ⓒ $\frac{x - 5}{x - 4}$ ⓓ $\frac{x - 5}{x - 3}$

২০। $\frac{x^2 + 1}{(x - 1)^2 - 2x} =$ কত?
  ⓐ $\frac{x - 4}{x + 4}$ ⓑ $\frac{x + 4}{x - 4}$ ⓒ $\frac{x - 1}{x + 4}$ ⓓ $x + 1$

২১। আয়তনের দুইটি সন্নিহিত বাহুর দৈর্ঘ্য 12 সে.মি. ও 14 সে.মি. হলে, ক্ষেত্রফল কত?
  ⓐ 128 বর্গসে.মি. ⓑ 120 বর্গসে.মি.
  ⓒ 84 বর্গসে.মি. ⓓ 48 বর্গসে.মি.

২২। ABCD রম্বসের ∠A = 60° হলে, ∠D = কত?
  ⓐ 60° ⓑ 80° ⓒ 100° ⓓ 120°

২৩। একটি ত্রিভুজ আঁকতে কমপক্ষে কয়টি উপাত্তের প্রয়োজন?
  ⓐ 5 ⓑ 4 ⓒ 3 ⓓ 2

☐ নিচের চিত্রের আলোকে ২৪ ও ২৫ নং প্রশ্নের উত্তর দাও :

২৪। ∠A = কত?
  ⓐ 30° ⓑ 45° ⓒ 60° ⓓ 90°

২৫। AC = কত একক?
  ⓐ 50 ⓑ $3\sqrt{2}$ ⓒ $5\sqrt{2}$ ⓓ $2\sqrt{3}$

২৬। সমকোণী ত্রিভুজ আঁকা যাবে যদি বাহুগুলির অনুপাত—
  i. 3 : 4 : 5
  ii. 1 : 1 : $\sqrt{2}$
  iii. 5 : 12 : 13 হয়
  নিচের কোনটি সঠিক?
  ⓐ i ও ii ⓑ ii ও iii ⓒ i ও iii ⓓ i, ii ও iii

২৭। একটি সমকোণী ত্রিভুজের লম্বের দৈর্ঘ্য a এবং ভূমির দৈর্ঘ্য b হলে, অতিভুজ কত হবে?
  ⓐ $a^2 + b^2$ ⓑ $\sqrt{a^2 + b^2}$
  ⓒ $a^2 - b^2$ ⓓ $\sqrt{a^2 - b^2}$

২৮। 64 বর্গসে.মি. ক্ষেত্রফলবিশিষ্ট বর্গের কর্ণের দৈর্ঘ্য কত সে.মি.?
  ⓐ 8 ⓑ $2\sqrt{8}$ ⓒ $8\sqrt{2}$ ⓓ 128

২৯। 2, 8, 10, 16 এবং x এর গড় 12 হলে, x এর মান কত?
  ⓐ 24 ⓑ 12 ⓒ 6 ⓓ 4

৩০। কোন ধরনের উপাত্তের নির্ভরযোগ্যতা বেশি?
  ⓐ বিন্যস্ত ⓑ অবিন্যস্ত
  ⓒ মাধ্যমিক ⓓ প্রাথমিক

উত্তরপত্র (মেগা ফটোকপির ছক)

১	২	৩	৪	৫	৬	৭	৮	৯	১০	১১	১২	১৩	১৪	১৫
১৬	১৭	১৮	১৯	২০	২১	২২	২৩	২৪	২৫	২৬	২৭	২৮	২৯	৩০

উত্তরমালা

১	খ	২	ক	৩	গ	৪	ক	৫	ক	৬	খ	৭	ঘ	৮	ক	৯	গ	১০	ঘ	১১	খ	১২	ঘ	১৩	ঘ	১৪	গ	১৫	খ
১৬	ঘ	১৭	গ	১৮	খ	১৯	খ	২০	ক	২১	গ	২২	খ	২৩	খ	২৪	খ	২৫	গ	২৬	ঘ	২৭	খ	২৮	গ	২৯	ক	৩০	ঘ

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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

When Biospheres Collide: A History of NASA's Planetary Protection Programs Michael Meltzer,2012-01-27 PRINT FORMAT ONLY NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced list price This new book from the NASA History Series tackles an interesting duo of biological problems that will be familiar to anybody who has seen photos of Apollo astronauts quarantined after their return to Earth Namely how do we avoid contaminating celestial bodies with Earthly germs when we send spacecraft to study these bodies and how do we avoid spreading foreign biological matter from space when our robotic and human spacefarers return to Earth Biological matter from an external system could potentially cause an unchecked epidemic either on Earth or in space so strict precautions are necessary Each time a space vehicle visits another world it runs the risk of forever changing that extraterrestrial environment We are surrounded on Earth by a m lange of different microorganisms and if some of these hitchhike onboard a space mission they could contaminate and start colonies on a different planet Such an occurrence would irrevocably alter the nature of that world compromise all future scientific exploration of the body and possibly damage any extant life on it By inadvertently carrying exotic organisms back to Earth on our spacecraft we also risk the release of biohazardous materials into our own ecosystem Such concerns were recognized by scientists even before the 1957 launch of Sputnik This book presents the history of planetary protection by tracing the responses to the above concerns on NASA s missions to the Moon Mars Venus Jupiter Saturn and many smaller bodies of our solar system The book relates the extensive efforts put forth by NASA to plan operations and prepare space vehicles that return exemplary science without contaminating the biospheres of other worlds or our own To protect irreplaceable environments NASA has committed to conducting space exploration in a manner that is protective of the bodies visited as well as of our own planet *Current Problems in Applied Mathematics and Computer Science and Systems* Anatoly Alikhanov,Pavel Lyakhov,Irina Samoylenko,2023-06-05 This book is based on the best papers accepted for presentation during the International Conference on Actual Problems of Applied Mathematics and Computer Systems APAMCS 2022 Russia The book includes research materials on modern mathematical problems solutions in the field of scientific computing data analysis and modular computing The scope of numerical methods in scientific computing presents original research including mathematical models and software implementations related to the following topics numerical methods in scientific computing solving optimization problems methods for approximating functions etc The

studies in data analysis and modular computing include contributions in the field of deep learning neural networks mathematical statistics machine learning methods residue number system and artificial intelligence Finally the book gives insights into the fundamental problems in mathematics education The book intends for readership specializing in the field of scientific computing parallel computing computer technology machine learning information security and mathematical education   *NASA's Human Space Exploration* United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space,2012   Recent Trends in Ergodic Theory and Dynamical Systems Siddhartha Bhattacharya,Tarun Das,Anish Ghosh,Riddhi Shah,2015-01-26 This volume contains the proceedings of the International Conference on Recent Trends in Ergodic Theory and Dynamical Systems in honor of S G Dani s 65th Birthday held December 26 29 2012 in Vadodara India This volume covers many topics of ergodic theory dynamical systems number theory and probability measures on groups Included are papers on Teichm ller dynamics Diophantine approximation iterated function systems random walks and algebraic dynamical systems as well as two surveys on the work of S G Dani   **The Political Economy of Education in South Asia** John Richards,Manzoor Ahmed,Md. Shahidul Islam,2021-12-23 With the exception of Sri Lanka South Asian countries have not achieved quality basic education an essential measure for escaping poverty inequality and social exclusion In The Political Economy of Education in South Asia John Richards Manzoor Ahmed and Shahidul Islam emphasize the importance of a dynamic system for education policy The Political Economy of Education in South Asia documents the weak core competency reading and math outcomes in government primary schools in India Pakistan Bangladesh and Nepal and the consequent rapid growth of non government schools over the last two decades It compares the training hiring and management of teachers in South Asian schools to successful national systems ranging from Singapore to Finland Discussing reform options it makes the case public good and public priorities are better served when both public and non government providers come under a strong public policy and accountability framework The Political Economy of Education in South Asia draws on the authors broad engagement in education research and practice in South Asia as well as analysis by prominent professors of education and NGO leaders to place basic education in a broad context and make the case that universal literacy and numeracy are necessary foundations for economic growth   The Computer Algebra System OSCAR Wolfram Decker,Christian Eder,Claus Fieker,Max Horn,Michael Joswig,2025-01-30 This book presents version 1 0 of the new Computer Algebra System OSCAR Written in Julia OSCAR builds on and vastly extends four cornerstone systems ANTIC for number theory GAP for group and representation theory polymake for polyhedral and tropical geometry and Singular for commutative algebra and algebraic geometry It offers powerful computational tools that transcend the boundaries of the individual disciplines involved It is freely available open source software The book is an invitation to use OSCAR With discussions of theoretical and algorithmic aspects included it offers a multitude of explicit code snippets These are valuable for interested researchers from graduate students through established experts

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 toprovide 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   Ordered Algebraic Structures and Related Topics Fabrizio Broglia,2017 Contains the proceedings of the international conference Ordered Algebraic Structures and Related Topics held in October 2015 at CIRM Luminy Marseilles Papers cover topics in real analytic geometry real algebra and real algebraic geometry including complexity issues model theory of various algebraic and differential structures Witt equivalence of fields and the moment problem   **The Use of Data in School Counseling** Trish Hatch,Julie Hartline,2021-07-29 This edition provides school counselors with new ways for moving from reactive to proactive and from random to intentional counseling By using data to determine what all students deserve to receive and when some students need more it offers effective ways to provide proactive school counseling services stay accountable and advocate for systemic change Includes data analysis intervention strategies methods aligned with standards examples artifacts and other tools **Zambia Law Journal** ,2015   Proceedings of the First Annual Workshop of the HORIZON 2020 CEBAMA Project (KIT Scientific Reports ; 7734) Altmaier, M.,Montoya, V.,Duro, L.,Valls, A.,2017-06-30   **Smart Cities** Fateh Belaïd,Anvita Arora,2023-09-30 This edited volume discusses the socioeconomic environmental and policy implications of smart cities Written by international experts in energy economics and policy the chapters present wide range of high quality theoretical and empirical studies at the nexus of social entrepreneurial governmental and ecological transformation The book covers a

wide range of topics with a view towards providing empirical evidence of the benefits of smart cities as well as practical frameworks for smart city initiatives Topics discussed include smart city transition pillars innovation for smart and sustainable cities design and implementation smart city governance smart mobility within cities and smart cities in emerging economies This volume will be of use to students and researchers interested in resource economics energy economics sustainability ICT and governance as well as policymakers working on smart city initiatives This is an open access book

Scramble for the Skies Namrata Goswami,Peter A. Garretson,2020-10-06 With a focus on China the United States and India this book examines the economic ambitions of the second space race The authors argue that space ambitions are informed by a combination of factors including available resources capability elite preferences and talent pool The authors demonstrate how these influences affect the development of national space programs as well as policy and law *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 **Numerical Simulations** Lutz Angermann,2011-01-30 This book will interest researchers scientists engineers and graduate students in many disciplines who make use of mathematical modeling and computer simulation Although it represents only a small sample of the research activity on numerical simulations the book will certainly serve as a valuable tool for researchers interested in getting involved in this multidisciplinary field It will be useful to encourage further experimental and theoretical researches in the above mentioned areas of numerical simulation *Proceedings of the 6th International Conference on Industrial Engineering (ICIE 2020)* Andrey A. Radionov,Vadim R. Gasiyarov,2021-03-31 This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering are discussed including the dynamics of machines and working processes friction wear and lubrication in machines surface transport and technological machines manufacturing engineering of industrial facilities materials engineering metallurgy control systems and their industrial applications industrial mechatronics automation and robotics The book gathers selected papers presented at the 6th International Conference on Industrial Engineering ICIE held in Sochi Russia in May 2020 The authors are experts in various fields of engineering and all papers have been carefully reviewed Given its scope the book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering

graduates **Emerging Issues and Trends in Education** Theodore S. Ransaw,Richard Majors,2017-08-01 As classrooms across the globe become increasingly more diverse it is imperative that educators understand how to meet the needs of students with varying demographic backgrounds Emerging Issues and Trends in Education presents case studies from academics who have all at one point been teachers in K 12 classrooms addressing topics such as STEM as well as global issues related to race gender education education policy and parental engagement The contributors take an international approach including research about Nigerian Chinese Native American and Mexican American classrooms With a focus on multidisciplinary perspectives Emerging Issues and Trends in Education is reflective of the need to embrace different ways of looking at problems to improve education for all students *Handbook of Best Practices in Sustainable Development at University Level* Walter Leal Filho,Claudio Ruy Portela de Vasconcelos,2022-07-05 This book gives a special emphasis to state of the art descriptions of approaches methods initiatives and projects from universities stakeholders organizations and civil society across the world regarding cross cutting issues in sustainable development There is a perceived need for mobilizing the various stakeholders when attempting to promote sustainability in higher education and to promote best practices which may inspire further initiatives But despite this need there are a few publications handling this matter in a coherent way In order to meet the pressing need for publications which may document and disseminate examples of best practice on sustainable development at university level the Handbook of Best Practices in Sustainable Development at University Level is being published This book is produced by the European School of Sustainability Science and Research ESSSR through the Inter University Sustainable Development Research Programme IUSDRP and contains inputs from authors across all geographical regions The book also discusses examples of initiatives coordinated by universities but involving civil society the private sector and public sector including local national and intergovernmental bodies In particular it describes practical experiences partnerships networks and training schemes for building capacity aimed at fostering the cause of sustainable development at institutions of higher education Thanks to its design and the contributions by experts from various areas it provides a welcome contribution to the literature on sustainable development and it may inspire further works in this field **Technological Horizons of Decarbonization Based on Environmental Innovations** Elena G. Popkova,2025-08-02 This book highlights the technological horizons of decarbonization in the digital economy based on environmental innovations It reveals the advantages of digital technologies and innovations for decarbonization and identifies the industry features of decarbonization based on digital technologies and innovations The book describes in detail and discusses the international experience of decarbonization of the economy with the use of digital technologies and innovations A set of authors recommendations has been developed to unlock the potential of decarbonization based on digital technologies and innovations Applied solutions for the use of digital technologies and innovations in the interests of decarbonization have also been proposed

Jsc 2011 Math Question Book Review: Unveiling the Power of Words

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