

৪ সেট
অনিয়ত স্কুল স্যাটিকিট পরীক্ষা, ২০১৩
পনিত
[২০১৩ সালের সিলেবাস অনুযায়ী]

বিষয় কোড :

1 0 9

সময়—৩ ঘণ্টা

পূর্ণমান—১০০

[দ্রষ্টব্যঃ—ডান পাশে উল্লিখিত সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]

পাঠিপনিত

মান—২৪

- ১। নিচের তালিকাটির পরবর্তী দুইটি সংখ্যা নির্ণয় কর :—
২, ২, ৪, ৮, ১৪, ২২

অর্থবা,

নিচের তালিকাটির পাশাপাশি দুইটি পদের পার্থক্য বের কর এবং পরবর্তী দুইটি সংখ্যা নির্ণয় কর :—
৬, ১৭, ২৮, ৩৯, ৫০,

- ২। যে কোনো দুইটি প্রশ্নের উত্তর দাও :—

- (ক) বার্ষিক মুদ্রাফা ৮% থেকে বেড়ে ১০% হওয়ায় তিনশা মারমার আর ৪ বছরে ১২৮ টাকা বেড়ে গেল। তার মূলধন কত ছিল?
(খ) ৬,৫০০ টাকা যে ছাত্র মূল্যফার ৪ বছরে মূল্যফা-আসলে ৮,৮৪০ টাকা হয়, এই একই ছাত্র মূল্যফার কত টাকা ৪ বছরে মূল্যফা-আসলে ১০,২০০ টাকা হবে?
(গ) বার্ষিক শতকরা ৮-৫০ টাকা চক্রবৃদ্ধি মূল্যফার ১০,০০০ টাকার ২ বছরের সবুজি মূল ও চক্রবৃদ্ধি মূল্যফা নির্ণয় কর।
(ঘ) কোনো শহরের বর্তমান জনসংখ্যা ৮০ লক্ষ এই শহরের জনসংখ্যা বৃদ্ধির হার প্রতি হাজারে ৩০ হলে, ৩ বছর পর এই শহরের জনসংখ্যা কত হবে?

- ৩। যে কোনো একটি প্রশ্নের উত্তর দাও :—

- (ক) একটি আয়তাকার বাগানের দৈর্ঘ্য ৩২ মিটার এবং প্রস্থ ২৪ মিটার। এর ভিতরে চারদিকে ২ মিটার চওড়া একটি রাস্তা আছে। রাস্তাটির ক্ষেত্রফল নির্ণয় কর।
(খ) একটি ঘরের মোট কার্পেট নিয়ে ঢাকতে মোট ৭,২০৬ টাকা ব্যয় হয়। ঘরটির প্রস্থ ৩ মিটার কম হলে ৫৭৬ টাকা কম ব্যয় হতো। ঘরটির প্রস্থ কত?

সীমাপনিত

মান—৩০

- ৪। যে কোনো দুইটি প্রশ্নের উত্তর দাও :—

- (ক) $a - \frac{1}{a} = m$ হলে, দেখাও যে $a^4 + \frac{1}{a^4} = m^4 + 4m^2 + 2$.
(খ) $a - \frac{1}{a} = 5$ হলে, $a^3 - \frac{1}{a^3}$ এর মান কত?
(গ) উৎপাদকে বিশ্লেষণ কর (যে কোনো দুইটি) :
(i) $64a^3 - 125b^3$.
(ii) $ax^2 + (a^2 + 1)x + a$.
(iii) $x^2 + y^2 - 2xy - 1$.

- (ঘ) ল. সা. ও নির্ণয় কর :

$$6x^2 - x - 1, 3x^2 + 7x + 2 \text{ এবং } 2x^2 + 3x - 2.$$

- ৫। যে কোনো একটি প্রশ্নের উত্তর দাও :—

- (ক) সরল কর :

$$\frac{1}{x+3y} + \frac{1}{x-3y} - \frac{2x}{x^2-9y^2}.$$

- (খ) সরল কর :

$$\frac{x^2+2x-3}{x^2+x-2} \div \frac{x^2+x-6}{x^2-4}.$$

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Fabrizio Broglia



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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 Algebraic and Combinatorial Aspects of Tropical Geometry Erwan Brugalle, Maria Angelica Cueto, Alicia Dickenstein, Eva-Maria Feichtner, Ilia Itenberg, 2013-05-23 This volume contains the proceedings of the CIEM workshop on Tropical Geometry held December 12 16 2011 at the International Centre for Mathematical Meetings CIEM Castro Urdiales Spain Tropical geometry is a new and rapidly developing field of mat Women Spacefarers Umberto Cavallaro, 2017-03-02 This book tells the fascinating stories of the valiant women who broke down barriers to join the space program Beginning with the orbital flight of USSR cosmonaut Valentina Tereshkova in 1963 they became players in the greatest adventure of our time The author contextualizes their accomplishments in light of the political and cultural climate from the Cold War in the background to the changing status of women in society at large during the Seventies The book includes the biographies of and in some cases interviews with the sixty women who flew in space in the first half century of space history It reports their achievements and some little known details The result is a gallery of pioneering women who reached for the stars women who with exceptional skill hard work and dedication reached impressive careers as accomplished pilots researchers and engineers many are now in high level managerial positions both at NASA or in public and private organizations and all left a legacy of strength

Algebraic Curves and Their Applications Lubjana Beshaj, Tony Shaska, 2019-02-26 This volume contains a collection of papers on algebraic curves and their applications While algebraic curves traditionally have provided a path toward modern algebraic geometry they also provide many applications in number theory computer security and cryptography coding theory differential equations and more Papers cover topics such as the rational torsion points of elliptic curves arithmetic statistics in the moduli space of curves combinatorial descriptions of semistable hyperelliptic curves over local fields heights on weighted projective spaces automorphism groups of curves hyperelliptic curves dessins d enfants applications to Painlev equations descent on real algebraic varieties quadratic residue codes based on hyperelliptic curves and Abelian varieties and cryptography This book will be a valuable resource for people interested in algebraic curves and their connections to other branches of mathematics 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

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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 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

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