

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—পাতিগণিত

- | | | মান |
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| 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) লেবডিহ থেকে সমীকরণদ্বয়ের সমাধান নির্ণয় কর। | ২
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| ৫। | $x + \frac{1}{x} = 5$ একটি বীজগণিতিক 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 2014 Math Question

**Mohammad Khalil, Mohammed
Saqr, Sonsoles López-Pernas, Isabel
Hilliger**

Jsc 2014 Math Question:

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 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 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 Mathématiques **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 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

Mathematics ,2024

Reviewing **Jsc 2014 Math Question**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Jsc 2014 Math Question**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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