

সময়—৩ ঘণ্টা

পূর্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান—৬০

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

ক বিভাগ—পাঠ্যগণিত

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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) $P \cap Q$ নির্ণয় কর।
(খ) $(P \cap Q) \cup (Q \cap R)$ নির্ণয় কর।
(গ) প্রমাণ কর যে, $(Q \cup R)' = Q' \cap R'.$ | 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 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।

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**United States. Congress. Senate.
Committee on Commerce, Science,
and Transportation. Subcommittee on
Science and Space**

Jsc Math Question 2014 New:

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

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

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

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

□□ □□ □□,2020-11-13 1 19 1 000 1 0 1% 19 Think Like a Rocket Scientist Moonshot NASA *Mathematics* ,2024

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