

জে এস সি পরীক্ষা ২০১৫ এর মডেল প্রশ্ন

গণিত

বিষয় কোড: ১০৯

সময় — ২ ঘণ্টা ১০ মিনিট

সৃজনশীল প্রশ্ন

পূর্ণমান — ৬০

[দ্রষ্টব্য: প্রতিটি বিভাগ হতে কমপক্ষে ১টি করে নিয়ে যে কোনো ৬টি প্রশ্নের উত্তর দাও। কোন পার্থক্য সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]

ক-বিভাগ: পটিপটিত

১. যদি সন্ধ্যার একটি কলকাতা সংস্থা থেকে ৯.৫০% মুদ্রাকার শর্তে ১০,০০০ টাকা কল নিলেন। তাকে চক্রবৃদ্ধি মুদ্রাকার কল পরিণেপ করতে হবে।

- ক. প্রারম্ভিক কলের ৯.৫০% এর পরিমাণ নির্ণয় কর। ২
- খ. ৩ বছর পর কল কত টাকা বৃদ্ধি পাবে? ৪
- গ. ৪ বছর পর সরল মুদ্রাকার কল পরিণেপ করলে তাকে কত টাকা কম দিতে হবে? ৪

২. একটি অয়তাকার বাগানের দৈর্ঘ্য ৬০ মিটার এবং প্রস্থ ৫০ মিটার। বাগানের ভেতরের চতুর্ভুজ ৩ মিটার চওড়া একটি রাস্তা আছে। বাগানটিতে ২ মিটার উচ্চ ও ২৫ সে.মি. পুরুত্ব বিশিষ্ট সীমানা প্রাচীর আছে।

- ক. রাস্তা বাদে বাগানের দৈর্ঘ্য ও প্রস্থ নির্ণয় কর। ২
- খ. রাস্তার ক্ষেত্রফল নির্ণয় কর। ৪
- গ. প্রাচীরের আয়তন নির্ণয় কর। ৪

খ-বিভাগ: বীজপণিত

৩. $a - \frac{1}{a} = 3$

ক. $\left(a + \frac{1}{a}\right)^2$ এর মান নির্ণয় কর। ২

খ. প্রমাণ কর যে, $a^4 + \frac{1}{a^4} = 119$ । ৪

গ. $\frac{a^2 - 1}{a}$ এর মান নির্ণয় কর। ৪

৪. দুই অঙ্ক বিশিষ্ট কোনো সংখ্যার অঙ্কদ্বয়ের সমষ্টির সাথে ৭ যোগ করলে যোগফল দশক স্থানীয় অঙ্কের তিনগুণ হয়। কিছু সংখ্যাটির সাথে ৭ যোগ করলে অঙ্কদ্বয় স্থান বিনিময় করে।

ক. দশক স্থানীয় অঙ্ক x এবং একক স্থানীয় অঙ্ক y হলে সমীকরণ জোড় গঠন কর। ২

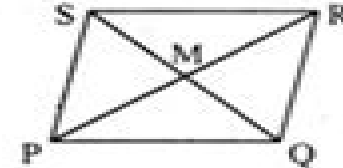
খ. সমীকরণ জোড়টি অশনয়ন পদ্ধতিতে সমাধান করে (x, y) নির্ণয় কর এবং সংখ্যাটি কত? ৪

গ. সমীকরণ জোড়টি লেখচিত্রের সাহায্যে সমাধান করে (x, y) এর গ্রাফ মানের সমজাত্য হাটাই কর। ৪

৫. সবিক সেট $U = \{1, 2, 3, 4, 5, 6\}$ এর উপসেট $A = \{x : x \text{ বিজোড় স্বাভাবিক সংখ্যা এবং } x < 7\}$ ও $B = \{x : x \text{ জোড় স্বাভাবিক সংখ্যা এবং } x < 7\}$

- ক. A ও B সেটদ্বয়কে তালিকা পদ্ধতিতে প্রকাশ কর। ২
- খ. প্রমাণ কর যে, $(A \cup B)' = A' \cap B'$ ৪
- গ. $(A - B) \cup (A \cap B)' \cup (A \cap B)'$ এর মান নির্ণয় কর। ৪

গ-বিভাগ: জ্যামিতি



চিত্রে, $PS = QR$ এবং $PS \parallel QR$

- ক. PQ ভূমি বিশিষ্ট দুইটি ত্রিভুজের নাম লেখ। ২
- খ. প্রমাণ কর যে, PQ ও RS পরস্পর সমান ও সমান্তরাল। ৪
- গ. প্রমাণ কর যে, $PM = RM$ এবং $QM = SM$ । ৪
৬. $\triangle ABC$ এ $AB^2 = AC^2 + BC^2$ । ৪
- ক. নিখণ্ডেরাঙ্গের উপপাদ্যটি চিত্র সহ বিবৃত কর। ২
- খ. প্রমাণ কর যে, $\angle C =$ এক সমকোণ। ৪
- গ. $\triangle ABC$ এর দুটি মধ্যমা AD ও BE হলে প্রমাণ কর যে, $4(BE^2 + AD^2) = 5AB^2$ । ৪
৮. O কেন্দ্র বিশিষ্ট একটি বৃত্তে AB ও CD দুইটি সমান জ্যা, O থেকে AB ও CD এর উপর যথাক্রমে OE ও OF লম্ব, O, A ও O, C যোগ করা হলো। ৪
- ক. প্রদত্ত বর্ণনা অনুসারে চিত্র আঁক। ২
- খ. চিত্র থেকে প্রমাণ কর যে, বৃত্তের সকল সমান জ্যা কেন্দ্র থেকে সমদূরবর্তী। ৪
- গ. যদি O কেন্দ্র বিশিষ্ট বৃত্তে AB, CD ও EF তিনটি সমান জ্যা হয়, তবে প্রমাণ কর যে, তাদের মধ্য বিন্দুগুলো সমবৃত্ত। ৪

ঘ-বিভাগ: পরিসংখ্যান

৯. কাব্য স্টোকান থেকে ৪০টি পেয়ারা কিনল। পেয়ারাগুলোর ওজন (গ্রামে) নিচে দেওয়া হলো:

৮০, ৫৫, ৩০, ৭০, ১০০, ৭৫, ৮৫, ৯০, ৭০, ১১০, ৭০, ৭৫, ৮০, ৮০, ৬৫, ৮৫, ৩৫, ১০০, ৬০, ৩০, ৮৫, ৮০, ৯৫, ৮৫, ৮৫, ৭০, ৭৫, ১১০, ৬০, ৬৫, ৫৫, ৩০, ৭০, ৭৫, ৮৫, ৫৫, ৫০, ১০০, ৬০, ৮৮।

- ক. প্রেসি ব্যান্ডি ১০ বারে প্রেসি সংখ্যা নির্ণয় কর। ২
- খ. লগসংখ্যা নিবেশন সরাসরি তৈরি করে বড় নির্ণয় কর। ৪
- গ. উপাত্তগুলোর আয়তলেখ অঙ্কন কর। ৪

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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

Arithmetic, Geometry, Cryptography and Coding Theory Alp Bassa,Alain Couvreur,David Kohel,2017-03-27 This volume contains the proceedings of the 15th International Conference on Arithmetic Geometry Cryptography and Coding Theory AGCT held at the Centre International de Rencontres Math matiques in Marseille France from May 18 22 2015 Since the first meeting almost 30 years ago the biennial AGCT meetings have been one of the main events bringing together researchers interested in explicit aspects of arithmetic geometry and applications to coding theory and cryptography This volume contains original research articles reflecting recent developments in the field [Intelligent Computer Mathematics](#)

Cezary Kaliszyk,Edwin Brady,Andrea Kohlase,Claudio Sacerdoti Coen,2019-07-02 This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Computer Mathematics CICM 2019 held in Prague Czech Republic in July 2019 The 19 full papers presented were carefully reviewed and selected from a total of 41 submissions The papers focus on digital and computational solutions which are becoming the prevalent means for the generation communication processing storage and curation of mathematical information Separate communities have developed to investigate and build computer based systems for computer algebra automated deduction and mathematical publishing as well as novel user interfaces While all of these systems excel in their own right their integration can lead to synergies offering significant added value [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

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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 *Software for Exascale Computing - SPPEXA 2013-2015* Hans-Joachim Bungartz,Philipp Neumann,Wolfgang E. Nagel,2016-09-14 The research and its outcomes presented in this collection focus on various aspects of high performance computing HPC software and its development which is confronted with various challenges as today s supercomputer technology heads towards exascale computing The individual chapters address one or more of the research directions 1 computational algorithms 2 system software 3 application software 4 data management and exploration 5 programming and 6 software tools The collection thereby highlights pioneering research findings as well as innovative concepts in exascale software development that have been conducted under the umbrella of the priority programme Software for Exascale Computing SPPEXA of the German Research Foundation DFG and that have been presented at the SPPEXA Symposium Jan 25 27 2016 in Munich The book has an interdisciplinary appeal scholars from computational sub fields in computer science mathematics physics or engineering will find it of particular interest *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 **NASA's Human Space Exploration** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space, 2012 **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 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 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) **Nonlinear Science and Complexity** J.A. Tenreiro Machado, Albert C. J. Luo, Ramiro S. Barbosa, Manuel F. Silva, Lino B. Figueiredo, 2010-11-03 This book contains selected papers of NSC08 the 2nd Conference on Nonlinear Science and Complexity held 28 31 July 2008 Porto Portugal It focuses on fundamental theories and principles analytical and symbolic approaches computational techniques in nonlinear physics and mathematics Topics treated include Chaotic Dynamics and Transport in Classic and Quantum Systems Complexity and Nonlinearity in Molecular Dynamics and Nano Science Complexity and Fractals in Nonlinear Biological Physics and Social Systems Lie Group Analysis and Applications in Nonlinear Science Nonlinear Hydrodynamics and

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 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
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