জুনিয়র স্কুল সার্টিফিকেট পরীক্ষা, ২০১৩
গণিত
[২০১৩ সালের সিলেবাস অনুযায়ী]

বিষয় কোড ঃ

1	0	9

সময়—৩ ঘণ্টা

পূর্ণমান—১০০

[প্রান্তিক:—ডান পাশে উল্লিখিত সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]

পাটিগণিত
মান—২৪

নম্বর

১। নিচের তালিকাটির পরবর্তী দুইটি সংখ্যা নির্ণয় কর ঃ—   ৩×২=৬

২, ২, ৪, ৮, ১৪, ২২ .... ।

অথবা,

নিচের তালিকাটির পাশাপাশি দুইটি সংখ্যার পার্থক্য বের কর এবং পরবর্তী দুইটি সংখ্যা নির্ণয় কর ঃ—

৫, ১৭, ২৯, ৩৯, ৫৫, ... ।

২। যে কোনো **দুইটি** প্রশ্নের উত্তর দাও ঃ—   ৬×২=১২

(ক) বার্ষিক মুনাফা ৮% থেকে বেড়ে ১০% হওয়ায় তিনা মামোর আয় ৪ বছরে ১২৮ টাকা বেড়ে গেল। তার মূলধন কত ছিল?

(খ) ৬,৫০০ টাকার যে হার মুনাফায় ৪ বছরে মুনাফা-আসলে ৮,৮৪০ টাকা হয়, ঐ একই হার মুনাফায় কত টাকা ৪ বছরের মুনাফা-আসলে ১০,২০০ টাকা হবে?

(গ) বার্ষিক শতকরা ৮.৫০ টাকা চক্রবৃদ্ধি মুনাফায় ১০,০০০ টাকার ২ বছরের সমূহবৃদ্ধি মূল ও চক্রবৃদ্ধি মুনাফা নির্ণয় কর।

(ঘ) কোনো শহরের বর্তমান জনসংখ্যা ৮০ লক্ষ ঐ শহরের জনসংখ্যা বৃদ্ধির হার প্রতি হাজারে ২০ হলে, ৩ বছর পর ঐ শহরের জনসংখ্যা কত হবে?

৩। যে কোনো **একটি** প্রশ্নের উত্তর দাও ঃ—   ৬×১=৬

(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 মেঝে কার্পেট দিয়ে ঢাকতে মোট ২,২০০ টাকা খরচ হয়। ঘরটির প্রস্থ ৩ মিটার কম হলে ৫৭৬ টাকা কম খরচ হতো। ঘরটির প্রস্থ নির্ণয় কর।

বীজগণিত
মান—৫০

৪। যে কোনো **দুইটি** প্রশ্নের উত্তর দাও ঃ—   ৬×২=১২

(ক) $a - \frac{1}{a} = m$ হলে, দেখাও যে $a^4 + \frac{1}{a^4} = m^4 + 4m^2 + 2$

(খ) $a + \frac{1}{a} = 3$ 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. গু নির্ণয় কর ঃ

$6x^2 - x - 1$, $3x^2 + 7x + 2$ এবং $2x^2 + 3x - 2$.

৫। যে কোনো **একটি** প্রশ্নের উত্তর দাও ঃ—   ৬×১=৬

(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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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 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 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   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   *The Use of Data in School Counseling* Trish Hatch,Julie Hartline,2021-07-29 This edition provides school counselors with new ways for

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questions we felt we knew the answers to. Shakespeare's Macbeth | Printable Reading Activity Read through an excerpt from Macbeth by Shakespeare and answer comprehension questions focusing on theme and figurative language. Macbeth guided reading Macbeth (Shakespeare) - Act 1, Scenes 2-3 - The Prophecy (Worksheet + ANSWERS) ... chart, soliloquy and line analysis, close- reading ... Macbeth Act 1 Scenes 4-7 Flashcards ACT 1 SCENE 4. ACT 1 SCENE 4 · How does Malcolm say the execution of the Thane of Cawdor went? · Who is Malcolm? · What does Duncan deem Malcolm to be? · Who does ... Macbeth Act 2, scene 1 Summary & Analysis Get the entire Macbeth LitChart as a printable PDF. "My students can't get enough of your charts and their results have gone through the roof." -Graham S. Answer Key for The newborn nightmare CS.docx Part 3 1.I agree with Dr. Maddison's hunch that the babies could have either streptococcus or staphylococcus considering that their symptoms (rash, peeling skin ... The Case Of The Newborn Nightmare Case Study.docx The case of the newborn nightmare case study Part 1 1.Dr. Maddison is facing a number of challenges. First, he has three very sick babies in his clinic. SOLUTION: The Case of the Newborn Nightmare The specimens were taken from some unusual skin lesions on three of our infants. I know that we need at least a routine culture and sensitivity with Gram stain. The Case of the Newborn Nightmare: Part V Nov 3, 2015 — Question: The Case of the Newborn Nightmare: Part V The nasal swabs taken from the hospital staff can be analyzed to determine the strain of S. Case Study- The Case of the Newborn Nightmare 1.what challenges Dr Maddison is facing? 2. What information does he have so far about the infection? 3. What are some possible causes of skin infections? List ... Chapter 21 Flashcards (review the NEWBORN NIGHTMARE case study). Exfoliative toxin from Staph. aureus. Fever, red raised blistering skin, peeling skin. Culture baby's nose and ... CASE TEACHING NOTES for "The Case of the Newborn ... by A Wade — CASE TEACHING NOTES for "The Case of the Newborn Nightmare" by Andrea Wade. Page 3. ANSWER KEY. Answers to the questions posed in the case ... Solved Newborn nightmare by Andrea Wade, what are the Oct 5, 2019 — Newborn nightmare is a case study done by Dr Andrea wade. Case study focuses on development of mysterious rashes among newborns. The Case of the Newborn Nightmare Oct 10, 2001 — Three newborns left in the care of "Dr. Mark Maddison" have developed a mysterious rash. Under increasing pressure from hospital ... Lab Practical Flashcards In regard to the "Case of the Newborn Nightmare," what was the name of the bacteria that caused the whole neighborhood to be sick? What is the common source ...