

[দ্রষ্টব্য : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। ক বিভাগ হতে দুটি, খ বিভাগ হতে দুটি, গ বিভাগ হতে দুটি এবং ঘ বিভাগ হতে একটি করে মোট সাতটি প্রশ্নের উত্তর দিতে হবে।]

ক বিভাগ—বীজগণিত

সংখ্যক

১। $A = \{x \in \mathbb{Z} : x^2 < 9\}$

$B = \{x \in \mathbb{N} : x \text{ মৌলিক সংখ্যা এবং } 1 < x \leq 5\}$

$S = \{x, y) : x \in A, y \in B \text{ এবং } y - x = 1\}$

$f(x) = \frac{4x+1}{4x-1}$

(ক) $M = \{12, 15\}$, $N = \{15, a\}$ হলে $P(M \cap N)$ নির্ণয় কর।

২

(খ) S অবয়বে তালিকা পদ্ধতিতে প্রকাশ করে এর রেঞ্জ নির্ণয় কর।

৪

(গ) $\frac{f(x+2)-1}{f(x-2)-1} = -1$ হলে x এর মান নির্ণয় কর।

৪

২। $x^8 - 2x^4 + 1 = 0$, $x > 0$

$A = p + q$ এবং $B = p^2 - q^2$.

(ক) উৎপাদকে বিশ্লেষণ কর : $y^4 - 79y^2 + 1$.

২

(খ) $\frac{3}{2} \left(x^3 + \frac{1}{x^3} \right)$ এর মান নির্ণয় কর।

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(গ) $A = \sqrt{7}$, $B = \sqrt{35}$ হলে প্রমাণ কর যে, $\frac{1}{3} (p^3q + pq^3) = 1$.

৪

৩। (i) $3 + 6 + 12 + \dots$ ধারাটির প্রথম n সংখ্যক পদের সমষ্টি 1533.

(ii) একটি সমান্তর ধারার p তম পদ q^2 এবং q তম পদ p^2 .

(ক) $7 + 10 + 13 + 16 + \dots$ ধারাটির কোন পদ 160 তা নির্ণয় কর।

২

(খ) n এর মান নির্ণয় কর।

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(গ) সমান্তর ধারাটির $(p - 1 + q)$ তম পদ নির্ণয় কর।

৪

[পর পৃষ্ঠা দ্রষ্টব্য]

Jsc Exam Barisal Board Qs Math

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Table of Contents Jsc Exam Barisal Board Qs Math

1. Understanding the eBook Jsc Exam Barisal Board Qs Math
 - The Rise of Digital Reading Jsc Exam Barisal Board Qs Math
 - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Exam Barisal Board Qs Math
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Jsc Exam Barisal Board Qs Math
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Exam Barisal Board Qs Math
 - Personalized Recommendations
 - Jsc Exam Barisal Board Qs Math User Reviews and Ratings
 - Jsc Exam Barisal Board Qs Math and Bestseller Lists
5. Accessing Jsc Exam Barisal Board Qs Math Free and Paid eBooks
 - Jsc Exam Barisal Board Qs Math Public Domain eBooks
 - Jsc Exam Barisal Board Qs Math eBook Subscription Services
 - Jsc Exam Barisal Board Qs Math Budget-Friendly Options
6. Navigating Jsc Exam Barisal Board Qs Math eBook Formats

- ePub, PDF, MOBI, and More
 - Jsc Exam Barisal Board Qs Math Compatibility with Devices
 - Jsc Exam Barisal Board Qs Math Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jsc Exam Barisal Board Qs Math
 - Highlighting and Note-Taking Jsc Exam Barisal Board Qs Math
 - Interactive Elements Jsc Exam Barisal Board Qs Math
 8. Staying Engaged with Jsc Exam Barisal Board Qs Math
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jsc Exam Barisal Board Qs Math
 9. Balancing eBooks and Physical Books Jsc Exam Barisal Board Qs Math
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jsc Exam Barisal Board Qs Math
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Jsc Exam Barisal Board Qs Math
 - Setting Reading Goals Jsc Exam Barisal Board Qs Math
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Jsc Exam Barisal Board Qs Math
 - Fact-Checking eBook Content of Jsc Exam Barisal Board Qs Math
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web the heat of reaction ΔH_{soln} is written after the products in units of kJ mol rxn for example sodium hydroxide dissolves

exothermically releasing 44.2 kilojoules per mole dissolved this process is represented as $\text{NaOH (s)} \rightarrow \text{NaOH (aq)}$ $\Delta H_{\text{soln}} = -44.2 \text{ kJ/mol}$ rxn write equations to similarly represent the dissolving process for

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web in this lab you are challenged to use chemistry to determine which ionic compound makes the best hand warmer in this experiment you will collect data that will allow you to calculate the heat of solution ΔH_{soln} or the amount of energy released

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