

অনুনির্ভরশি অধীক্ষা

উত্তরভার পণিত

প্রথম পত্র

[২০২০ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বরিশাল বোর্ড

বিষয় কোড :

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পেট :

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বিশেষ প্রক্রিয়া : সরবরাহকৃত অনুনির্ভরশি অধীক্ষার উত্তরপত্রে প্রত্যেক প্রশ্নিক সমস্যার বিশদীকৃত প্রকৃত অনুনির্ভরশিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের ক্রটি হল পড়েই কলাম দ্বারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। $A = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$ এবং $B = [a \ b]$ হলে $BA =$ কত?

(ক) $[-b \ a]$ (খ) $\begin{bmatrix} -b \\ a \end{bmatrix}$

● $[b - a]$ (ঘ) $\begin{bmatrix} b \\ -a \end{bmatrix}$

২। x -অক্ষের উপর সমস্ত বিন্দু x -অক্ষের উপর সীমিত নয়—

(ক) $x = 2$ (খ) $x = y$

● $y = 1$ (ঘ) $x - y = 2$

৩। $\tan A = \frac{1}{\sqrt{3}}$ হলে $\sin 3A =$ কত?

(ক) 0 ● 1 (গ) $\frac{\sqrt{3}}{2}$ (ঘ) $\frac{1}{\sqrt{3}}$

নিচের অক্ষের আলোকে ৪ ও ৫ নং প্রশ্নের উত্তর দাও।



৪। প্রদত্ত বৃত্তের কেন্দ্র C হলে—

(ক) (1, 1) (খ) (2, 2) (গ) (1, 2) ● (ঘ) (2, 1)

৫। AB এর দৈর্ঘ্য কত?

(ক) 2 একক (খ) 4 একক

● $2\sqrt{3}$ একক (ঘ) $\sqrt{3}$ একক

৬। $\lim_{x \rightarrow \infty} \frac{2x^2 + 3x + 1}{2x^2 - 4x + 2}$ এর মান কত?

(ক) 0 (খ) ∞

(গ) $\frac{1}{2}$ ● 1

৭। $x^2 + y^2 = 4$ বৃত্তের $(-1, \sqrt{3})$ বিন্দুতে স্পর্শকের

সমীকরণ কোনটি?

● $x - \sqrt{3}y + 4 = 0$

(খ) $x - \sqrt{3}y - 4 = 0$

(গ) $\sqrt{3}x - y + 4 = 0$

(ঘ) $\sqrt{3}x - y - 4 = 0$

৮। ABC ত্রিভুজের তিনটি বাহু $a = 3$, $b = 4$ এবং $c = 5$ হলে—

I. $5 = 4 \cos A + 3 \cos B$

II. $\cos \frac{C}{2} = \frac{1}{\sqrt{2}}$

III. $\tan \frac{A-C}{2} = \frac{1}{4} \cot \frac{B}{2}$

নিচের কোনটি সঠিক?

● I ও II (খ) I ও III

(গ) II ও III (ঘ) I, II ও III

৯। $\int_2^3 \frac{\ln(x-1)}{x-1} dx$ এর মান কত?

(ক) $2 \ln 2$ (খ) $2 (\ln 2)^2$

(গ) $\frac{1}{2} \ln 2$ ● $\frac{1}{2} (\ln 2)^2$

১০। $(0, 1)$ বিন্দু হতে $x^2 + y^2 - 8x - 6y + 21 = 0$ বৃত্তের উপর অঙ্কিত স্পর্শকের দৈর্ঘ্য কত?

(ক) 2 (খ) $2\sqrt{5}$

● 4 (ঘ) $4\sqrt{5}$

১১।



নিচের ক্ষেত্রের ক্ষেত্রফল কত বর্গ একক?

● $\frac{1}{2}$ (খ) 1

(গ) $\frac{3}{2}$ (ঘ) 2

১২। $y = \tan^{-1} \frac{4x}{1-4x^2}$ হলে $\frac{dy}{dx} =$ কত?

● $\frac{2}{1+4x^2}$ (খ) $\frac{2}{1-4x^2}$

(গ) $\frac{4}{1-4x^2}$ ● $\frac{4}{1+4x^2}$

[পর পৃষ্ঠা প্রক্রিয়া]

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Table of Contents Hsc Question Math 1st 2014 15 In Barisal Board

1. Understanding the eBook Hsc Question Math 1st 2014 15 In Barisal Board
 - The Rise of Digital Reading Hsc Question Math 1st 2014 15 In Barisal Board
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Question Math 1st 2014 15 In Barisal Board
 - 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 Hsc Question Math 1st 2014 15 In Barisal Board
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Question Math 1st 2014 15 In Barisal Board
 - Personalized Recommendations
 - Hsc Question Math 1st 2014 15 In Barisal Board User Reviews and Ratings
 - Hsc Question Math 1st 2014 15 In Barisal Board and Bestseller Lists

5. Accessing Hsc Question Math 1st 2014 15 In Barisal Board Free and Paid eBooks
 - Hsc Question Math 1st 2014 15 In Barisal Board Public Domain eBooks
 - Hsc Question Math 1st 2014 15 In Barisal Board eBook Subscription Services
 - Hsc Question Math 1st 2014 15 In Barisal Board Budget-Friendly Options
6. Navigating Hsc Question Math 1st 2014 15 In Barisal Board eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Question Math 1st 2014 15 In Barisal Board Compatibility with Devices
 - Hsc Question Math 1st 2014 15 In Barisal Board Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Question Math 1st 2014 15 In Barisal Board
 - Highlighting and Note-Taking Hsc Question Math 1st 2014 15 In Barisal Board
 - Interactive Elements Hsc Question Math 1st 2014 15 In Barisal Board
8. Staying Engaged with Hsc Question Math 1st 2014 15 In Barisal Board
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Question Math 1st 2014 15 In Barisal Board
9. Balancing eBooks and Physical Books Hsc Question Math 1st 2014 15 In Barisal Board
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Question Math 1st 2014 15 In Barisal Board
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Question Math 1st 2014 15 In Barisal Board
 - Setting Reading Goals Hsc Question Math 1st 2014 15 In Barisal Board
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Question Math 1st 2014 15 In Barisal Board
 - Fact-Checking eBook Content of Hsc Question Math 1st 2014 15 In Barisal Board
 - 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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