

বহুনির্বাচনি অতীশা

উচ্চতর গণিত

প্রথম পত্র

[২০২২ সালের সিলেবাস অনুযায়ী]

সময়—২০ মিনিট

পূর্ণমান—১৫

বিষয় কোড :

2 6 5

সেট :

গ

[বিশেষ শ্রুতি: সরবরাহকৃত বহুনির্বাচনি অতীশার উত্তরপত্রে প্রশ্নের ত্রুটিসহিত সঠিক উত্তরের বিপরীতে প্রশ্নের বর্ণসংলগ্নিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বলা পয়েন্ট কলাম দ্বারা সম্পূর্ণ ভরতি কর। প্রতিটি প্রশ্নের মান ১। যে কোনো পনেরোটি প্রশ্নের উত্তর দাও।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেওয়া যাবে না।

১।  $\sin 65^\circ + \cos 65^\circ = ?$

(ক)  $\frac{\sqrt{3}}{2} \cos 40^\circ$

(খ)  $\frac{1}{2} \sin 20^\circ$

(গ)  $\frac{\sqrt{3}}{2} \sin 40^\circ$

(ঘ)  $\sqrt{2} \cos 20^\circ$

২।  $\tan \frac{\alpha}{2} = 7$  হলে  $4 \sin \alpha - 3 \cos \alpha = ?$

(ক) 5

(খ) 4

(গ) 3

(ঘ) 6

৩।  $x$  এর সাপেক্ষে  $e^{\sin^2 x}$  এর অন্তরক কোনটি?

(ক)  $e^{\sin^2 x} \sin 2x$

(খ)  $2e^{\sin^2 x} \sin x$

(গ)  $-e^{\sin^2 x} \sin 2x$

(ঘ)  $e^{\sin^2 x}$

৪।  $y = ax(1-x)$  বক্ররেখার মূলবিন্দুতে ঢাল কত?

(ক)  $-a$

(খ)  $a$

(গ)  $a - 2ax$

(ঘ)  $a + 2ax$

৫।  $\frac{d}{dx} (\log_{10} x)$  এর মান কোনটি?

(ক)  $\frac{1}{x}$

(খ)  $\frac{1}{x} \log_{10} e$

(গ)  $\frac{1}{x} \log_e 10$

(ঘ)  $\log_{10} e$

৬।  $\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = ?$

(ক) 0

(খ)  $\infty$

(গ) 1

(ঘ) -1

৭।  $I = \int_1^e \frac{dx}{x(1+\ln x)}$  হলে  $I$  এর মান কত?

(ক)  $e$

(খ)  $e + 1$

(গ)  $\ln e - 1$

(ঘ)  $\ln 2$

৮।  $f(x) = 4x$  হলে—

$\int \frac{dx}{f(x)} = \frac{1}{4} \ln x + c$

$\int e^{f(x)} dx = \frac{1}{4} e^{4x} + c$

$\int_0^2 f(x) dx = 8$

নিচের কোনটি সঠিক?

(ক)  $i$  ও  $ii$

(খ)  $i$  ও  $iii$

(গ)  $ii$  ও  $iii$

(ঘ)  $i, ii$  ও  $iii$

৯।  $-\int_2^1 \ln x dx$  এর মান কোনটি?

(ক)  $2 \ln 2 - 1$

(খ)  $2 \ln 2 + 1$

(গ)  $2 \ln 2$

(ঘ)  $\ln 2$

১০।  $\int_0^{\frac{\pi}{4}} \sec \theta d\theta = ?$

(ক)  $\frac{1}{2} \ln 2$

(খ)  $\frac{1}{2} \ln (\sqrt{2} + 1)$

(গ)  $\ln (\sqrt{2} + 1)$

(ঘ)  $\ln (\sqrt{2} - 1)$

১১।  $A, B$  এবং  $C$  ম্যাট্রিক্সের মাত্রা কতকমে  $A \cdot B \cdot C = 4$

এবং  $(B + A^T) \cdot C^T$  ম্যাট্রিক্সের মাত্রা কত?

(ক)  $3 \times 4$

(খ)  $4 \times 3$

(গ)  $3 \times 7$

(ঘ)  $4 \times 7$

[পর পৃষ্ঠা শ্রুতি]

# Hsc Mathematics Question 2013 For Dhaka Board

**Yi-Tong Ma**



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## **Table of Contents Hsc Mathematics Question 2013 For Dhaka Board**

1. Understanding the eBook Hsc Mathematics Question 2013 For Dhaka Board
  - The Rise of Digital Reading Hsc Mathematics Question 2013 For Dhaka Board
  - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Mathematics Question 2013 For Dhaka 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 Mathematics Question 2013 For Dhaka Board
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Mathematics Question 2013 For Dhaka Board
  - Personalized Recommendations
  - Hsc Mathematics Question 2013 For Dhaka Board User Reviews and Ratings
  - Hsc Mathematics Question 2013 For Dhaka Board and Bestseller Lists
5. Accessing Hsc Mathematics Question 2013 For Dhaka Board Free and Paid eBooks
  - Hsc Mathematics Question 2013 For Dhaka Board Public Domain eBooks
  - Hsc Mathematics Question 2013 For Dhaka Board eBook Subscription Services
  - Hsc Mathematics Question 2013 For Dhaka Board Budget-Friendly Options

6. Navigating Hsc Mathematics Question 2013 For Dhaka Board eBook Formats
  - ePub, PDF, MOBI, and More
  - Hsc Mathematics Question 2013 For Dhaka Board Compatibility with Devices
  - Hsc Mathematics Question 2013 For Dhaka Board Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hsc Mathematics Question 2013 For Dhaka Board
  - Highlighting and Note-Taking Hsc Mathematics Question 2013 For Dhaka Board
  - Interactive Elements Hsc Mathematics Question 2013 For Dhaka Board
8. Staying Engaged with Hsc Mathematics Question 2013 For Dhaka Board
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hsc Mathematics Question 2013 For Dhaka Board
9. Balancing eBooks and Physical Books Hsc Mathematics Question 2013 For Dhaka Board
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hsc Mathematics Question 2013 For Dhaka Board
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Hsc Mathematics Question 2013 For Dhaka Board
  - Setting Reading Goals Hsc Mathematics Question 2013 For Dhaka Board
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Mathematics Question 2013 For Dhaka Board
  - Fact-Checking eBook Content of Hsc Mathematics Question 2013 For Dhaka 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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