

ক বিভাগ : স্বীকৃতিপত্র

১. যে কোনো দুইটি প্রদত্ত উত্তর দাও: $৫ \times ২ = ১০$
(ক) কর্ন ম্যাট্রিক্স করতে হলো $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$, $B = \begin{bmatrix} 4 \\ 6 \\ -1 \end{bmatrix}$
 $C = \begin{bmatrix} 1 & 2 & -5 & 6 \end{bmatrix}$ হলে, $(AB)C$ নির্ণয় কর।
(খ) প্রমাণ কর যে,
$$\begin{vmatrix} a & b & ax+by \\ b & c & bx+cy \\ ax+by & bx+cy & 0 \end{vmatrix} = (ax^2 + 2bxy + cy^2)(b^2 - ac)$$

(গ) যদি $A = \begin{bmatrix} 0 & 1 & 2 \\ 1 & 2 & 3 \\ 3 & 1 & 1 \end{bmatrix}$ হয়, তবে A^{-1} নির্ণয় কর।
২. যে কোনো একটি প্রদত্ত উত্তর দাও: $৫ \times ১ = ৫$
(ক) একজন পরীক্ষার্থীকে ১২টি প্রশ্ন থেকে ৬টি প্রশ্নের উত্তর নিতে হবে। তবে প্রথম ৫টি থেকে অবশ্যই ৪টি প্রশ্ন বাছাই করতে হবে। সে কত প্রকারে প্রশ্নগুলো বাছাই করতে পারবে?
(খ) 'PERMUTATIONS' শব্দটির বর্ণগুলি থেকে ১টি স্বরবর্ণ এবং ২টি ব্যঞ্জনবর্ণ নিয়ে কতগুলি শব্দ গঠন করা সম্ভব যেন স্বরবর্ণটি সবসময় মাঝখানে থাকে?

খ বিভাগ : স্মারিত্বিত ও ভেক্টর

৩. যে কোনো একটি প্রদত্ত উত্তর দাও: $৫ \times ১ = ৫$
(ক) $\vec{r} = \hat{i} + 2\hat{j} - 3\hat{k}$ এবং $\vec{s} = 3\hat{i} - \hat{j} + 2\hat{k}$ হলে, দেখাও যে,
 $\vec{r} + \vec{s}$ এবং $\vec{r} - \vec{s}$ ভেক্টর দুইটি পরস্পর লম্ব।
(খ) $\vec{r} = 3\hat{i} + \hat{j} - 2\hat{k}$, $\vec{s} = 2\hat{i} - \hat{j} + \hat{k}$ এবং $\vec{t} = \hat{i} + 3\hat{j} - 2\hat{k}$ হলে,
 $\vec{r} \times (\vec{s} \times \vec{t})$ নির্ণয় কর।
৪. যে কোনো তিনটি প্রদত্ত উত্তর দাও: $৫ \times ০০ = ১৫$
(ক) $\triangle ABC$ একটি সমকোণীক। x -অক্ষ বরাবর OA অবস্থিত। OC রেখার সমীকরণ $y = 2x$ এবং B বিন্দুর স্থানাঙ্ক $(4, 2)$ । A ও C বিন্দুর স্থানাঙ্ক এবং AC কর্ণের সমীকরণ নির্ণয় কর।
(খ) $\frac{x}{a} - \frac{y}{b} = 1$ রেখার উপর লম্ব এবং প্রদত্ত রেখা ও x -অক্ষের ছেদবিন্দুগামী সরলরেখার সমীকরণ নির্ণয় কর।
(গ) b ব্যতীর্ণবিন্দু $\triangle ABC$ একটি বর্গ। OA ও OC রেখা দুইটি লম্ব হলে দেখাও যে, বর্গটির পরিমূলের সমীকরণ হবে $x^2 + y^2 = b(x + y)$ ।
(ঘ) $\sqrt{2}$ ব্যাসার্ধবিশিষ্ট দুইটি বৃত্তের সমীকরণ নির্ণয় কর যার $x + y + 1 = 0$ রেখাকে স্পর্শ করে এবং যাদের কেন্দ্র x -অক্ষের উপর অবস্থিত।

গ বিভাগ : ত্রিকোণমিতি

৫. যে কোনো দুইটি প্রদত্ত উত্তর দাও: $৫ \times ২ = ১০$
(ক) $\cos A + \cos B + \cos C = 0$ হলে দেখাও যে,
 $\sum \sin A^2 = \sum \sin^2 A$
(খ) যদি $\tan \frac{\theta}{2} = \sqrt{\frac{1-\cos \theta}{1+\cos \theta}}$ হয়, প্রমাণ কর যে, $\cos \theta = \frac{\cos 2\theta - 1}{1 - \cos 2\theta}$
(গ) দেখাও যে, $y = \cos^2 x$ হলে $-a \leq x \leq a$ ।
৬. যে কোনো দুইটি প্রদত্ত উত্তর দাও: $৫ \times ২ = ১০$
(ক) প্রমাণ কর যে, $\tan 70^\circ - 2 \tan 50^\circ = \tan 20^\circ$ ।
(খ) প্রমাণ কর: $\cos \frac{\pi}{8} + \cos \frac{3\pi}{8} + \cos \frac{5\pi}{8} + \cos \frac{7\pi}{8} = \frac{3}{2}$ ।
(গ) $\triangle ABC$ -এ $a = \sqrt{3} + 1$, $b = \sqrt{3} - 1$ এবং $\angle C = 60^\circ$ হলে ত্রিকোণটির সমাধান কর।

ঘ বিভাগ : ক্যালকুলাস

৭. যে কোনো একটি প্রদত্ত উত্তর দাও: $৫ \times ১ = ৫$
(ক) A, B যাক্ষয় সংখ্যার সেট। $f: A \rightarrow B$ ফাংশনটি উপসেট এবং
 $f: A \rightarrow B$ ফাংশন $f(x) = \frac{x-3}{2x+1}$
(i) ফাংশনটির ডোমেইন এবং রেঞ্জ নির্ণয় কর। (ii) $f^{-1}(1)$ নির্ণয় কর।
(খ) যদি $f(x) = 2x - 5$ এবং $g(x) = x^2 + 6$ হয়, তবে $g(f(2))$ এবং $f(g(5))$ এর মান নির্ণয় কর।
৮. যে কোনো তিনটি প্রদত্ত উত্তর দাও: ৫
(ক) মান নির্ণয় কর: $\lim_{x \rightarrow 0} \frac{\sin x - x \cos x}{x^3}$
(খ) x এর প্রেক্ষিতে অন্তরল সমাধি নির্ণয় কর (যে কোনো দুইটি): $\frac{2}{x^2} \times ২ = ৫$
(i) $\sqrt{\sin^{-1} x}$ (ii) $\tan^{-1} \frac{2\sqrt{x}}{1-x}$ (iii) $\frac{\sqrt{x+1}}{\sqrt{x-1}}$
(খ) $y = \tan^{-1} x$ হলে, প্রমাণ কর যে, $(1+x^2)y + (2x-1)y' = 0$
(গ) যে কোনো দুইটি প্রদত্ত উত্তর দাও: $\frac{2}{x^2} \times ২ = ৫$
(i) $\int \frac{\sin x}{3+4\cos x} dx$ (ii) $\int \frac{x^2-1}{x^2-4} dx$ নির্ণয় কর;
(iii) $\int_0^1 \frac{x dx}{\sqrt{9-2x}}$ নির্ণয় কর।

১. (ক) $\begin{bmatrix} 13 & 26 & -65 & 78 \\ 40 & 80 & -200 & 240 \end{bmatrix}$

(গ) $\begin{bmatrix} \frac{1}{2} & -\frac{1}{3} & \frac{1}{4} \\ -4 & 3 & -1 \\ \frac{3}{2} & -\frac{1}{2} & \frac{1}{2} \end{bmatrix}$

২. (ক) 105

(খ) 155

৩. (খ) $17\hat{i} - 19\hat{j} + 16\hat{k}$

৪. (ক) $(3, 0), (1, 2): x + y - 3 = 0$

(খ) $ax + by = a^2$

(খ) $x^2 + y^2 - 2x - 1 = 0, x^2 + y^2 + 6x + 7 = 0$

৬. (খ) $A = 105^\circ, B = 15^\circ, C = \sqrt{6}$

৭. (ক) (i) ফাংশন $f = R - \left\{ -\frac{1}{2} \right\}$, রেঞ্জ $f = R - \left\{ \frac{1}{2} \right\}$

(ii) $f^{-1}(1) = -4$

(খ) $g(2(3)) = 7$ এবং $g(3(2)) = 57$

৮. (ক) $\frac{1}{2}$

(খ) (i) $\frac{2x^2}{(\sqrt{1-x^2}) \cdot 2\sqrt{\sin^{-1} x}}$ (ii) $\frac{1}{\sqrt{x(1+x)}}$ (iii) -

$\frac{1}{\sqrt{2}(\sqrt{x}-1)} \ln(3+4\cos x) + c$ (ii) $x + \frac{3}{4} \ln \left| \frac{x-2}{x+2} \right| + c$ (iii) 1

নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Table of Contents Hsc Math Guide Bangladesh

1. Understanding the eBook Hsc Math Guide Bangladesh
 - The Rise of Digital Reading Hsc Math Guide Bangladesh
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Math Guide Bangladesh
 - 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 Math Guide Bangladesh
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Math Guide Bangladesh

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

- Fact-Checking eBook Content of Hsc Math Guide Bangladesh
- 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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