

ক বিভাগ : স্বীকৃতিপত্র

১. যে কোনো দুইটি প্রদত্ত উত্তর দাও: $৫ \times ২ = ১০$
(ক) কণ ব্রাহ্মীক 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 : সত্যমিতি ও ভেটর

৩. যে কোনো একটি প্রদত্ত উত্তর দাও: $৫ \times ১ = ৫$
(ক) $\vec{r} = \vec{i} + 2\vec{j} - 3\vec{k}$ এবং $\vec{s} = 3\vec{i} - \vec{j} + 2\vec{k}$ হলে, দেখাও যে,
 $\vec{r} + \vec{s}$ এবং $\vec{r} - \vec{s}$ ভেটর দুইটি পরস্পর লম্ব।
(খ) $\vec{r} = 3\vec{i} + \vec{j} - 2\vec{k}$, $\vec{s} = 2\vec{i} - \vec{j} + \vec{k}$ এবং $\vec{t} = \vec{i} + 3\vec{j} - 2\vec{k}$ হলে,
 $\vec{r} \times (\vec{s} \times \vec{t})$ নির্ণয় কর।
৪. যে কোনো তিনটি প্রদত্ত উত্তর দাও: $৫ \times ০০ = ১৫$
(ক) $OABC$ একটি সমান্তরালক। 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 $OABC$ একটি বর্গ। OA ও OC রেখা দুইটি হলে দেখাও যে, বর্গটির পরিকূলের সমীকরণ হবে $x^2 + y^2 = b(x + y)$ ।
(ঘ) $\sqrt{2}$ ব্যাসবিশিষ্ট 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 $\tan \frac{\theta}{2} = \sqrt{\frac{1-c}{1+c}} \tan \phi$ হয়, প্রমাণ কর যে, $\cos \phi = \frac{\cos \theta - c}{1 - c \cos \theta}$
(গ) দেখাও যে, $y = \cos^2 x$ যখন $-\pi \leq x \leq \pi$,
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 যান্ত্রিক সংযোগের স্টেশন M এর দুইটি উপসেট এবং
 $f: A \rightarrow B$; যেখানে $f(x) = \frac{x-3}{2x+1}$
(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) $17\vec{i} - 19\vec{j} + 16\vec{k}$

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) যেখানে $f = R = \left\{ -\frac{1}{2} \right\}$, 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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