

উচ্চতর গণিত: প্রথম পত্র (সৃজনশীল)

বিষয় কোড :

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সময় — ২ ঘণ্টা ৩৫ মিনিট

পূর্ণমান — ৫০

[বি.প্র. : প্রত্যেক বিভাগ থেকে কমপক্ষে ২টি করে মোট ৫টি প্রশ্নের উত্তর দিতে হবে।]

ক-বিভাগ (বীজগণিত ও জ্যামিতি)

১. ► $A = \begin{bmatrix} 1 & 2 & -2 \\ 2 & 5 & -4 \\ 3 & 7 & -5 \end{bmatrix}$, $B = \begin{bmatrix} 1 \\ 3 \\ 5 \end{bmatrix}$, $X = \begin{bmatrix} x \\ y \\ z \end{bmatrix}$ এবং $f(x) = \ln x$.

ক. $P = \begin{bmatrix} 1 & 2 \\ 4 & -3 \end{bmatrix}$, $Q = \begin{bmatrix} 2 & 0 \\ 1 & 2 \end{bmatrix}$ হলে $(PQ)^T$ নির্ণয় করো। ২

খ. নির্ণায়কের সাহায্যে $AX = B$ থেকে প্রাপ্ত সমীকরণ জোড়ের সমাধান নির্ণয় কর। ৪

গ. $g(x) = \cos(f(x))$ হলে দেখাও যে, $g(x)g(y) - \frac{1}{2} \left[g\left(\frac{x}{y}\right) + f(xy) \right] = 0$. ৪

২. ► একটি 'triangle' এর শীর্ষবিন্দু তিনটি যথাক্রমে $A(1, 3, 2)$, $B(2, -1, 1)$, $C(-1, 2, 3)$ এবং O হলো ভেক্টর মূলবিন্দু।

ক. Degree শব্দটির অক্ষরগুলো থেকে যে কোন ৪টি অক্ষর প্রত্যেকবার নিয়ে কত প্রকারে বাছাই করা যেতে পারে? ২

খ. ভেক্টর পদ্ধতিতে ΔABC এর ক্ষেত্রফল নির্ণয় করো। ৪

গ. উদ্দীপকে উল্লিখিত ইংরেজি শব্দটির বর্ণগুলিকে কত প্রকারে সাজানো যায় যেখানে স্বরবর্ণগুলি একত্রে থাকবে না? ৪

৩. ► $A(4, 0)$ একটি বিন্দু এবং $x + 3y - 12 = 0$ একটি সরলরেখা।ক. a এর মান কত হলে $a\hat{i} - 2\hat{j} + \hat{k}$ এবং $2a\hat{i} - a\hat{j} - 4\hat{k}$ পরস্পর বন্ধ হবে? ২

খ. উদ্দীপকে উল্লিখিত সরলরেখার অক্ষদ্বয়ের মধ্যবর্তী খণ্ডিত অংশকে সমান তিনভাগে বিভক্ত করে এমন বিন্দুদ্বয়ের সাথে মূলবিন্দুর সংযোগ রেখার সমীকরণ নির্ণয় করো। ৪

গ. একটি বৃত্ত x -অক্ষকে A বিন্দুতে স্পর্শ করে এবং y -অক্ষ থেকে ৬ একক

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