

উচ্চতর গণিত: প্রথম পত্র (সৃজনশীল)

বিষয় কোড : 

২	৬	৫
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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  $\Delta ABC$  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

# Hsc Math Question Paper 23

**Hussin A.Rothana**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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