এইচএসসি পরীক্ষা এর মডেল প্রশ্ন (সকল বোর্ডের জন্য)

উচ্চতর গণিত: দ্বিতীয় পত্র (সৃজনশীল) বিষয় কোড : ২ ৬ ৬

সময় —— ২ ঘণ্টা ৩০ মিনিট পূর্ণমান —— ৫০

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

ক-বিভাগ (বীজগণিত ও ত্রিকোণমিতি)

১. ▶ $f(x) = x + 2$ এবং $\sqrt[3]{a + ib} = x + iy$

ক. সমাধান সেট নির্ণয় কর : $|f(x)| < 5$. ২

খ. দেখাও যে, $\sqrt[3]{a - ib} = x - iy$. ৪

গ. লেখচিত্রের সাহায্যে $z = f(2x) + f(3y - 4)$ এর সর্বোচ্চ মান বের কর (শর্ত সাপেক্ষে)। ৪

শর্তসমূহ : $x + 2y \le 10, x + y \le 6, x \le 4, x, y \ge 0$.

২. ▶ $a, b, c \in \mathbb{R}; ax^2 + bx + c = 0$

এবং $\left(\frac{-1 + \sqrt{-3}}{2}\right)^n + \left(\frac{-1 - \sqrt{-3}}{2}\right)^n = P$.

ক. প্রমাণ কর যে, $|a - b| \ge ||a| - |b||$. ২

খ. দেখাও যে, P এর মান 2 অথবা -1, যখন n যথাক্রমে 3 দ্বারা বিভাজ্য অথবা অপর কোন পূর্ণসংখ্যা। ৪

গ. উদ্দীপকে উল্লেখিত সমীকরণের মূল দুইটি α ও β হলে $x^2 - 2bx + 4a = 0$ সমীকরণের মূল দুইটিকে α ও β এর মাধ্যমে প্রকাশ কর। ৪

৩. ▶ $g(x) = (1 + x)^{44}$, $Q = \sin^{-1} x + \frac{1}{2}\cos^{-1} y - \cot^{-1} z$ এবং $cx^2 + bx + a = 0$ একটি সমীকরণ।

ক. $g(x)$ এর বিস্তৃতিতে 21তম ও 22তম পদ দুইটি সমান হলে, x এর মান নির্ণয় কর। ২

খ. $x = \frac{3}{5}, y = \frac{5}{13}$ এবং $z = 2$ হলে, দেখাও যে, $\tan Q = \frac{28}{29}$ ৪

গ. যদি $ax^2 + bx + c = 0$ এর একটি মূল উদ্দীপকে উল্লেখিত সমীকরণের একটি মূলের দ্বিগুণ হলে, দেখাও যে, $2a - c = 0$ অথবা $(2a + c)^2 = 2b^2$ ৪

৪. ▶ $A + B = \frac{\pi}{2}$, $C = (1 - 4x)^{-\frac{1}{2}}$ এবং $D = 4\cos x \cos 2x \cos 3x$

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Xiaolong Qi

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