

সেট : ০১

উচ্চতর গণিত (সৃজনশীল)
দ্বিতীয় পত্র

[২০২২ সালের নিলেবান অনুযায়ী]

বিষয় কোড :

2 6 6

সময়—১ ঘণ্টা ৪০ মিনিট

পূর্ণমান—৩০

দ্রষ্টব্য : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। যে কোনো তিনটি প্রশ্নের উত্তর দাও।

ক বিভাগ—বীজগণিত ও ত্রিকোণমিতি

নম্বর

১. $z_1 = 1 + ia, z_2 = a + i;$

এবং $|z + 2| + |z - 2| = 6, z = x + iy$ একটি কণিক।(ক) $\sqrt{-1}$ এর বর্গমূল নির্ণয় কর।

২

(খ) $a = \sqrt{3}$ হলে দেখাও যে, $\arg\left(\frac{z_1}{z_2}\right) = \arg(z_1) - \arg(z_2)$ ।

৪

(গ) কণিকটির অক্ষয়ের দৈর্ঘ্য নির্ণয় কর।

৪

২. উদ্দীপক-১ : $ax^2 + 2bx + c = 0$ এর একটি মূল α ।উদ্দীপক-২ : $ax^2 + 2bx + c = 0$ এর একটি মূল $cx^2 + 2bx + a = 0$ সমীকরণের একটি মূল β ।(ক) $2x^2 + x + 1 = 0$ এর একটি মূল α ।

২

(খ) উদ্দীপক-১ এর সাহায্যে দেখাও যে, $b^3 + c(3b + 1) - c^2 = 0$ ।

৪

(গ) উদ্দীপক-২ এর সাহায্যে দেখাও যে, $(a + 3c)^2 = (c + 3a)^2$ ।

৪

৩. দেওয়া আছে $\phi(x) = \cos^{-1}x$ এবং

$$h(\theta) = \cos\theta - \sin\theta$$

(ক) প্রমাণ কর যে, $\sin^2\left(\cos^{-1}\frac{1}{3}\right) - \cos^2\left(\sin^{-1}\frac{1}{\sqrt{3}}\right) = \frac{2}{9}$ ।

২

(খ) $\phi(x) + \phi(y) + \phi(z) = \pi$ হলে দেখাও যে, $x^2 + y^2 + z^2 + 2xyz = 1$ ।

৪

(গ) $(-\pi, \pi)$ ব্যবধিতে $h(\theta) = \frac{1}{\sqrt{2}}$ সমীকরণটির সমাধান নির্ণয় কর।

৪

[পর পৃষ্ঠা দ্রষ্টব্য]

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L Darling-Hammond



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