

অনিনির্ধারিত অসীমতা

উচ্চতর গণিত

দ্বিতীয় পত্র

[২০২২ সালের সিলেবাস অনুযায়ী]

সময়—২০ মিনিট

কূর্ণমান—১৫

বিষয় কোড :

2

6

6

শ্রেণী :

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[বিশেষ সূচন্য:]

সরকারী/অন্য কোনো বহুনির্ধারিত অসীমতার উত্তরগুলোতে প্রাপ্তের ত্রুটিমুক্ত নথিভুক্তের বিপরীতে প্রাপ্ত বহুনির্ধারিত দু'তালমুখ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের সূত্রটি কল পাঠ্যপুস্তক কলাম দ্বারা সম্পূর্ণ করতে হবে। যে কোনো পাঠ্যপুস্তকটি প্রাপ্তের উত্তর দিতে হবে। প্রতিটি প্রাপ্তের মান ১।

অন্যভাবে কোনো প্রকার দাখল/ভুল দেয়া যাবে না।

১. $z_1 = 1+2i$ এবং $z_2 = 3+i$ হলে $z_1 - z_2$ এর মডুলাস হল—

- (ক) $\sqrt{5}$ (খ) $\sqrt{13}$
(গ) $\sqrt{25}$ (ঘ) $5\sqrt{2}$

২. $z = 1-i$ হলে $z - \bar{z}$ এর বর্গমূল কত?

- (ক) $-1-i$ (খ) $\pm(1+i)$
(গ) $\pm(1-i)$ (ঘ) $\pm\frac{1}{\sqrt{2}}(1-i)$

৩. $1-\sqrt{3}i$ এর মুখ্য আর্গমেন্ট কত?

- (ক) $\frac{2\pi}{3}$ (খ) $\frac{\pi}{3}$
(গ) $-\frac{\pi}{3}$ (ঘ) $-\frac{2\pi}{3}$

৪. $\sqrt[4]{-49}$ এর মান কোনটি?

- (ক) $\pm\sqrt{7}i$ (খ) $\pm\sqrt{\frac{7}{2}}(1\pm i)$
(গ) $\pm\frac{7}{2}(1\pm i)$ (ঘ) $\pm\frac{7}{\sqrt{2}}(1\pm 2i)$

৫. $3x^3 - 1 = 0$ সমীকরণের মূলদ্বয় α, β, γ হলে $\alpha^2 + \beta^2 + \gamma^2 = ?$

- (ক) -1
(খ) 0
(গ) $\frac{1}{3}$
(ঘ) 1

৬. কোনো দ্বিঘাত সমীকরণের একটি মূল $\frac{1}{2+i}$ হলে সমীকরণটি হবে—

- (ক) $5x^2 - 12x + 5 = 0$
(খ) $5x^2 - 4x + 1 = 0$
(গ) $5x^2 + 4x + 1 = 0$
(ঘ) $25x^2 - 20x + 3 = 0$

৭. $x^2 - 4x + 2 = 0$, সমীকরণের একটি মূল 3 হলে—

- I. অন্য মূল $\frac{2}{3}$
II. k -এর মান $\frac{11}{3}$
III. প্রাপ্ত সমীকরণের বিপরীতক = 7

নিচের কোনটি সঠিক?

- (ক) I ও II (খ) II ও III
(গ) I ও III (ঘ) I, II ও III

৮. $(p^2 - 4)x^2 + 4px + (4p + 1) = 0$ সমীকরণের মূলদ্বয় পরস্পর লৌপিক বিপরীত হলে p এর মান কত?

- (ক) $-1, 5$ (খ) $1, 5$
(গ) $-2, -2$ (ঘ) $-3, 1$

৯. $\frac{1}{x} - \frac{1}{x-p} - \frac{1}{q}$ সমীকরণের মূলদ্বয় α, β হলে—

- I. $\alpha + \beta = p$
II. $\alpha\beta = pq$
III. $\frac{1}{\alpha} + \frac{1}{\beta} = \frac{1}{q}$

নিচের কোনটি সঠিক?

- (ক) I ও II (খ) II ও III
(গ) I ও III (ঘ) I, II ও III

১০. $y^2 + 4x + 2y - 8 = 0$ পরাবৃত্তের উপকেন্দ্র হবে—

- (ক) $\left(\frac{9}{4}, -1\right)$ (খ) $\left(\frac{9}{4}, -2\right)$
(গ) $\left(\frac{5}{4}, -1\right)$ (ঘ) $\left(\frac{13}{4}, -1\right)$

১১. ক্রমিকভাবে অক্ষদ্বয়কে উপবৃত্তের অক্ষ বিবেচনা করে, দু'টি অক্ষের দৈর্ঘ্য 12 একক এবং উৎকেন্দ্রিকতা $-\frac{1}{3}$ হলে অক্ষদ্বয়ের দৈর্ঘ্য কত?

- (ক) $4\sqrt{2}$ (খ) $8\sqrt{2}$
(গ) $9\sqrt{2}$ (ঘ) $4\sqrt{6}$

Hsc Math2nd Paper Question Of 2014 Ctg Board

Ian Pickup



Hsc Math2nd Paper Question Of 2014 Ctg Board:

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