বহুনির্বাচনি অভীক্ষা
উচ্চতর গণিত
দ্বিতীয় পত্র
[২০২২ সালের সিলেবাস অনুযায়ী]

বিষয় কোড : | 2 | 6 | 6 |

সেট : | ক |

সময়—২০ মিনিট
পূর্ণমান—১৫

[বিশেষ প্রষ্টব্য:] সরবরাহকৃত বহুনির্বাচনি অভীক্ষার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বল পয়েন্ট কলম দ্বারা সম্পূর্ণ করতে হবে। যে কোনো পাঁচেরাটি প্রশ্নের উত্তর দিতে হবে। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেওয়া 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 আর্গুমেন্ট 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) $\pm\sqrt{7i}$  (খ) $\sqrt{\frac{7}{2}}(1\pm i)$
(গ) $\pm\frac{7}{2}(1\pm i)$  (ঘ) $\frac{7}{\sqrt{2}}(1\pm 2i)$

৫। $3x^3 - 1 = 0$ সমীকরণের মূলসমূহ $\alpha, \beta, \gamma$ হলে $\alpha^3+\beta^3+\gamma^3 = ?$
(ক) $-1$
(খ) $0$
(গ) $\frac{1}{3}$
(ঘ) $1$

৬। কোনো দ্বিঘাত সমীকরণের একটি মূল $\frac{1}{2+i}$ হলে সমীকরণটি হল—
(ক) $9x^2-12x+5 = 0$
(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. অপর মূল $\frac{2}{3}$
ii. $k$ এর মান $\frac{11}{3}$
iii. প্রদত্ত সমীকরণের নিশ্চায়ক = 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 পরস্পরের গাণিতিক 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 $\alpha, \beta$ 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। $y^2+4x+2y-3=0$ পরাবৃত্তের উপকেন্দ্র হল—
(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। উপাক্ষের আনুভূমিক উপবৃত্তের অক্ষ বিবেচনা করে, বৃহৎ অক্ষের দৈর্ঘ্য 12 একক এবং উৎকেন্দ্রিকতা $\frac{1}{3}$ হলে ক্ষুদ্রাক্ষের দৈর্ঘ্য কত?
(ক) $4\sqrt{2}$  (খ) $3\sqrt{2}$
(গ) $9\sqrt{2}$  (ঘ) $4\sqrt{6}$

[পর পৃষ্ঠা প্রষ্টব্য]

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