

বহুনির্বাচনি অধীক্ষণ

উচ্চতর শক্তি

প্রথম পত্র

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্বসময়—২৫

সিলেট বোর্ড

বিষয় কোড :

2 6 5

সেট :

গ

[বিশেষ প্রতিবন্ধ : সরবরাহকৃত বহুনির্বাচনি অধীক্ষণের উত্তরণে প্রাপ্তের ত্রুটিক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহে হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বসে পরেই কলম দ্বারা সম্পূর্ণ ভরতি কর। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাণ্ডা/চিহ্ন দেয়া যাবে না।

১। $x \neq 0 \left(1 + \frac{3}{x}\right)^{4x} = ?$

- (ক) $e^{\frac{4}{3}}$
(খ) $3e^{12}$

সঠিক উত্তর নেই
 $x \rightarrow \infty$ হলে e^{12} হবে

- (গ) e^{12}
(ঘ) 1

২।



AB সরলরেখার সমীকরণ—

- (ক) $\sqrt{3}x - y = 2\sqrt{3}$
(খ) $\sqrt{3}x + y = 2\sqrt{3}$
(গ) $x + \sqrt{3}y = 2\sqrt{3}$
(ঘ) $x - \sqrt{3}y = 2\sqrt{3}$

৩। $3x - 5y = 7$ সরলরেখার উপর লম্ব এবং (1, 2) বিন্দুগামী সরলরেখার সমীকরণ—

- (ক) $5x + 3y + 11 = 0$
(খ) $5x + 3y - 11 = 0$
(গ) $3x + 5y + 7 = 0$
(ঘ) $3x + 5y - 7 = 0$

৪। পোলার স্থানাঙ্কে $r^2 - 2r \sin \theta = 3$ একটি বৃত্তের সমীকরণ। বৃত্তটির ব্যাসার্ধ কত?

- (ক) 2 একক
(খ) 3 একক
(গ) 4 একক
(ঘ) 6 একক

৫। $\cos \theta = \frac{3}{4}$ ও $\cos \theta$ ঋণাত্মক হলে $\sin \theta$ এর মান কত?

- (ক) $\frac{4}{3}$
(খ) $\frac{5}{4}$
(গ) $-\frac{4}{3}$
(ঘ) $-\frac{5}{4}$

৬। $y = x^{-\frac{1}{2}}$ হলে $\frac{dy}{dx} = ?$

- (ক) $x^{-2} - \frac{1}{2}(1 - \ln x)$
(খ) $x^{\frac{1}{2}+2}(\ln x - 1)$
(গ) $x^{-2} + \frac{1}{2}(1 - \ln x)$
(ঘ) $x^{-2} - \frac{1}{2}(\ln x - 1)$

৭। $y = 5x$, x -অক্ষ এবং $x = 4$ সরলরেখা দ্বারা আবদ্ধ ক্ষেত্রের ক্ষেত্রফল কত বর্গএকক?

- (ক) 10
(খ) 20
(গ) 40
(ঘ) 80

৮। $A = \begin{bmatrix} 1 & -1 \\ 1 & 1 \end{bmatrix}$ হলে $A^{-1} = ?$

- (ক) $\frac{1}{2} \begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix}$
(খ) $\frac{1}{2} \begin{bmatrix} 1 & -1 \\ 1 & 1 \end{bmatrix}$
(গ) $\begin{bmatrix} 1 & 1 \\ -1 & 1 \end{bmatrix}$
(ঘ) $\begin{bmatrix} 1 & -1 \\ 1 & 1 \end{bmatrix}$

৯। $(-2, -4)$ ও $(4, 6)$ বিন্দুদ্বয়ের সমযোজক রেখাকে x -অক্ষ কত অনুপাতে বিভক্ত করে?

- (ক) 3 : 2
(খ) 2 : 3
(গ) 1 : 2
(ঘ) 2 : 1

১০। $x^2 + y^2 + 6x - 4y - 3 = 0$ বৃত্তের ক্ষেত্রে—

- I. কেন্দ্র $(-3, 2)$
II. ব্যাসার্ধ = 4
III. মূলবিন্দুটি বৃত্তের ভিতরে অবস্থিত

নিচের কোনটি সঠিক?

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

[পর পৃষ্ঠা প্রতিবন্ধ]

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Mike Jess



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