

অনুনির্ভরশি অধীক্ষা

উত্তরভার পণিত

প্রথম পত্র

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বরিশাল বোর্ড

বিষয় কোড :

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পেট :

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বিশেষ প্রক্রিয়া : সরবরাহকৃত অনুনির্ভরশি অধীক্ষার উত্তরপত্রে প্রত্যেক প্রশ্নিক সমস্যার বিশদীকৃত প্রত্যেক অনুনির্ভরশিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের ক্রটি হল পড়েই কলাম দ্বারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। $A = \begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$ এবং $B = \begin{bmatrix} a & b \end{bmatrix}$ হলে $BA =$ কত?

(ক) $[-b \ a]$ (খ) $\begin{bmatrix} -b \\ a \end{bmatrix}$

● $[b - a]$ (ঘ) $\begin{bmatrix} b \\ -a \end{bmatrix}$

২। x -অক্ষের উপর সমস্ত বৃত্তের সমীকরণ হল—

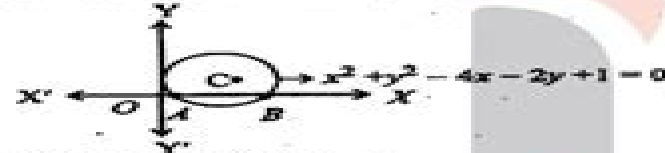
(ক) $x = 2$ (খ) $x = y$

● $y = 1$ (ঘ) $x - y = 2$

৩। $\tan A = \frac{1}{\sqrt{3}}$ হলে $\sin 3A =$ কত?

(ক) 0 ● 1 (গ) $\frac{\sqrt{3}}{2}$ (ঘ) $\frac{1}{\sqrt{3}}$

নিচের অক্ষের আলোকে ৪ ও ৫ নং প্রশ্নের উত্তর দাও।



৪। এমনকি বৃত্তের কেন্দ্র C হলো—

(ক) (1, 1) (খ) (2, 2) (গ) (1, 2) ● (2, 1)

৫। AB এর দৈর্ঘ্য কত?

(ক) 2 একক (খ) 4 একক

● $2\sqrt{3}$ একক (ঘ) $\sqrt{3}$ একক

৬। $\lim_{x \rightarrow \infty} \frac{2x^2 + 3x + 1}{2x^2 - 4x + 2}$ এর মান কত?

(ক) 0 (খ) ∞

(গ) $\frac{1}{2}$ ● 1

৭। $x^2 + y^2 = 4$ বৃত্তের $(-1, \sqrt{3})$ বিন্দুতে স্পর্শকের সমীকরণ কোনটি?

● $x - \sqrt{3}y + 4 = 0$

(খ) $x - \sqrt{3}y - 4 = 0$

(গ) $\sqrt{3}x - y + 4 = 0$

(ঘ) $\sqrt{3}x - y - 4 = 0$

৮। ABC ত্রিভুজের তিনটি বাহু $a = 3$, $b = 4$ এবং $c = 5$ হলে—

I. $5 = 4 \cos A + 3 \cos B$

II. $\cos \frac{C}{2} = \frac{1}{\sqrt{2}}$

III. $\tan \frac{A-C}{2} = \frac{1}{4} \cot \frac{B}{2}$

নিচের কোনটি সঠিক?

● I ও II (খ) I ও III

(গ) II ও III (ঘ) I, II ও III

৯। $\int_2^3 \frac{\ln(x-1)}{x-1} dx$ এর মান কত?

(ক) $2 \ln 2$ (খ) $2 (\ln 2)^2$

(গ) $\frac{1}{2} \ln 2$ ● $\frac{1}{2} (\ln 2)^2$

১০। $(0, 1)$ বিন্দু হতে $x^2 + y^2 - 8x - 6y + 21 = 0$ বৃত্তের উপর অঙ্কিত স্পর্শকের দৈর্ঘ্য কত?

(ক) 2 (খ) $2\sqrt{5}$

● 4 (ঘ) $4\sqrt{5}$

১১।



নিচের ক্ষেত্রগুলোর কোনটির ক্ষেত্রফল কত বর্গ একক?

● $\frac{1}{2}$ (খ) 1

(গ) $\frac{3}{2}$ (ঘ) 2

১২। $y = \tan^{-1} \frac{4x}{1-4x^2}$ হলে $\frac{dy}{dx} =$ কত?

(ক) $\frac{2}{1+4x^2}$ (খ) $\frac{2}{1-4x^2}$

(গ) $\frac{4}{1-4x^2}$ ● $\frac{4}{1+4x^2}$

[পর পৃষ্ঠা প্রক্রিয়া]

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