

অনুনির্ভরনি অধীক্ষা

উত্তরভার পণিত

প্রথম পত্র

[২০২০ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

# বরিশাল বোর্ড

বিষয় কোড : 

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বিশেষ প্রক্রিয়া : সরবরাহকৃত অনুনির্ভরনি অধীক্ষার উত্তরপত্রে প্রত্যেক প্রশ্নিক সমস্যার বিশদীকৃত প্রত্যেক অনুনির্ভরনি কৃতসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের ক্রটি হল পড়েই কলম 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 বিন্দু  $x$ -অক্ষের উপর সীমিত হলে—

(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। প্রদত্ত বৃত্তের কেন্দ্র C হলে—

(ক) (1, 1) (খ) (2, 2) (গ) (1, 2) ● (ঘ) (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)  $\infty$

(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 প্রদেয়]

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