

ঢাকা বোর্ড

বাহিনীবাঁচনি অজীকার

উত্তর পশ্চিম

প্রথম পত্র

[২০২০ সালের নিয়োগ অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

2 6 5

সেট :

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বিশেষ প্রটোকল : পরবর্তীকৃত বাহিনীবাঁচনি অজীকার উত্তরপত্র প্রাপ্তির ত্রুটি দখলের নিয়মিত প্রাপ্ত কর্তৃপক্ষের দৃষ্টান্তমূলক হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের দৃষ্টান্ত দল পরবর্তী কলাম দ্বারা সম্পূর্ণ ভরসি কর। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রের কোনো প্রকার দল/ত্রুটি দেয়া যাবে না।

১। $A = \begin{bmatrix} 2 & 1 & -1 \end{bmatrix}$ এবং $B = \begin{bmatrix} 2 \\ 0 \\ 3 \end{bmatrix}$ হলে, $BA - I$

(ক) $\begin{bmatrix} 1 \end{bmatrix}$

(খ) $\begin{bmatrix} 4 \\ 0 \\ -3 \end{bmatrix}$

(গ) $\begin{bmatrix} 4 & 0 & -3 \end{bmatrix}$

(ঘ) $\begin{bmatrix} 4 & 2 & -2 \\ 0 & 0 & 0 \\ 6 & 3 & -3 \end{bmatrix}$

২। $f(1) = 6$, $f'(1) = 3$ হলে, $x = 0$ বিন্দুতে $\frac{d}{dx}(\log f(e^x))$

এর মান কোনটি?

(ক) 2

(খ) 1

(গ) $\frac{1}{2}$

(ঘ) 0

৩। $(1, 2)$ বিন্দুদ্বারা $3x + 2y + 5 = 0$ রেখার উপর লম্বরেখার সমীকরণ কোনটি?

(ক) $2x + 3y - 8 = 0$

(খ) $3x - 2y + 1 = 0$

(গ) $3x + 2y - 7 = 0$

(ঘ) $2x - 3y + 4 = 0$

৪। $\frac{d}{dx}(\tan^{-1}(e^x)) =$ কত?

(ক) $\frac{e^x}{1 + e^{2x}}$

(খ) $\frac{1}{1 + e^x}$

(গ) $\frac{e^x}{1 + e^{2x}}$

(ঘ) $\frac{1}{1 + e^{2x}}$

৫। $\begin{vmatrix} 1 & 2 \\ -3 & 6 \end{vmatrix}$ নির্ণয়ক —

I. $(1, 2)$ তম ক্রমের সমতুল্যক 3

II. $(2, 2)$ তম ক্রমের অনুরূপ 1

III. নির্ণয়কের মান 12

নিচের কোনটি সঠিক?

(ক) I ও II

(খ) I ও III

(গ) II ও III

(ঘ) I, II ও III

৬। $ay + bx + c = 0$ রেখার ঢাল কোনটি?

(ক) $-\frac{b}{a}$

(খ) $-\frac{a}{b}$

(গ) $\frac{a}{b}$

(ঘ) $\frac{b}{a}$

৭। $2x + 3y = 9$ এবং $4x + 6y = 7$ সরলরেখাদ্বয়ের মধ্যবর্তী দূরত্ব কোনটি?

(ক) $\frac{1}{\sqrt{13}}$

(খ) $\frac{2}{\sqrt{13}}$

(গ) $\frac{11}{2\sqrt{13}}$

(ঘ) $\frac{25}{2\sqrt{13}}$

৮। $r = 2a \cos \theta$ বৃত্তের —

I. কেন্দ্র $(a, 0)$

II. ব্যাসার্ধ $2a$

III. x -অক্ষ হতে ছেদাংশের পরিমাণ $2a$

নিচের কোনটি সঠিক?

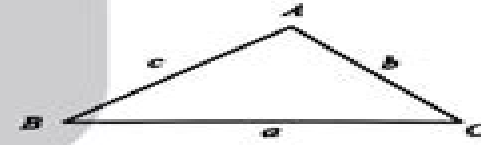
(ক) I ও II

(খ) I ও III

(গ) II ও III

(ঘ) I, II ও III

উল্লিখিতের আলোকে ৯ ও ১০ নং প্রশ্নের উত্তর দাও।



৯। $\cos \frac{A}{2} =$ কত?

(ক) $\sqrt{\frac{s(s-a)}{bc}}$

(খ) $\sqrt{\frac{(s-b)(s-c)}{bc}}$

(গ) $\sqrt{\frac{bc}{s(s-a)}}$

(ঘ) $\sqrt{\frac{bc}{(s-b)(s-c)}}$

১০। উল্লিখিত —

I. $b = c \cos A + a \cos C$

II. $c^2 = a^2 + b^2 + 2ab \cos C$

III. $c = 2R \sin C$

নিচের কোনটি সঠিক?

(ক) I ও II

(খ) I ও III

(গ) II ও III

(ঘ) I, II ও III

[পর পৃষ্ঠা প্রটোকল]

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be calculated to give the plant the highest