

ঢাকা বোর্ড

বাংলাদেশি অভিজ্ঞা
উচ্চতর পরিষে
বৰ্ষবৰ্ষ পৰৱৰ্ষ
(২০২৩ সালের পিলেবাস অনুযায়ী)
সময়—১৫ মিনিট
পুঁজিস—১০

চিনিপৰে প্ৰতিবাদ: সহজবাবুকৃত বাংলাদেশি অভিজ্ঞাৰ উচ্চতৰ পৰিষেৰ অভিজ্ঞাৰ বিপৰীতে অনুযায়ী বৰ্ষবৰ্ষ পৰৱৰ্ষ অনুযায়ী/পৰৱৰ্ষ পৰৱৰ্ষ উচ্চতৰ সূত্ৰটি বল পৰৱৰ্ষ কৰিব বাৰা সম্পূৰ্ণ কৰিব কৰ। পৰিবৰ্ষ পৰৱৰ্ষ অনুযায়ী।
অনুযায়ী কোৱালো একাবৰ সাময়িক সেৱা কৰিব দৰা।

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

(ক) [1]

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

(গ) $[-4 \ 0 \ -3]$

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

২। $f(1) = 6, f'(1) = 3$ হলে, $x = 0$ পৰিবেজন $\frac{d}{dx}(\log f(x^2))$ অনুযায়ী কোৱালো

(ক) 2

(কৰ) 1

(গু) $\frac{1}{2}$

(গু) 0

৩। $(1, 2)$ পিলেবাসী $3x + 2y + 5 = 0$ হৰেৰ উপৰ সহজবাবুকৃত অভিজ্ঞাৰ কোৱালো

(ক) $2x + 3y - 8 = 0$ (কৰ) $3x - 2y + 1 = 0$

(গ) $3x + 2y - 7 = 0$ (গু) $2x - 3y + 4 = 0$

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

(ক) $\frac{e^x}{1+e^{2x}}$

(কৰ) $\frac{1}{1+e^x}$

(গু) $\frac{e^x}{1+e^{2x}}$

(গু) $\frac{1}{1+e^{2x}}$

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

I. $(1, 2)$ কৰ কুকিৰ সহজবাবুকৃত ৩II. $(2, 2)$ কৰ কুকিৰ সহজবাসী ১

III. পিলেবাসীৰ অনুযায়ী ১২

পিলেবাসী কোৱালো সমিক্ষা

(ক) I & II

(কৰ) I & III

(গ) II & III

(গু) I, II & III

বিষয় নম্বৰ : 2 6 5

পৰিবেজন :

৪

৬। $qy + px + r = 0$ হৰেৰ অনুযায়ী কোৱালো সমীক্ষা

(ক) $-\frac{p}{q}$ (কৰ) $-\frac{q}{p}$

(গ) $\frac{q}{p}$ (কৰ) $\frac{p}{q}$

৭। $2x + 3y = 9$ এবং $4x + 6y = 7$ সহজবাবুকৃত অনুযায়ী কোৱালো

(ক) $\frac{1}{\sqrt{13}}$ (কৰ) $\frac{2}{\sqrt{13}}$

(গু) $\frac{11}{2\sqrt{13}}$ (গু) $\frac{25}{2\sqrt{13}}$

৮। $r = 2a \cos \theta$ হৰেৰ —

I. কেন্দ্ৰ $(a, 0)$ II. স্বামৈৰ $2a$ III. x-অক্ষ হৰে কেন্দ্ৰৰ পৰিমাণ $2a$

পিলেবাসী কোৱালো সমিক্ষা

(ক) I & II (কৰ) I & III

(গ) II & III (গু) I, II & III

কুকিৰ অনুযায়ী I & II হৰে উপৰ আছে।



৯। $\cos \frac{A}{2} =$ কৰিব

(ক) $\frac{s(s-a)}{bc}$ (কৰ) $\frac{\sqrt{(s-b)(s-c)}}{bc}$
(গ) $\sqrt{\frac{bc}{s(s-a)}}$ (গু) $\sqrt{\frac{bc}{(s-b)(s-c)}}$

১০। উপৰিবেজন —

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

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

III. $c = 2R \sin C$

পিলেবাসী কোৱালো সমিক্ষা

(ক) I & II (কৰ) I & III

(গ) II & III (গু) I, II & III

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