

বহুনির্বাচনি অতীক্ষা

উচ্চতর পণিত

প্রথম পত্র

[২০২২ সালের সিলেবাস অনুযায়ী]

সময়—২০ মিনিট

পূর্ণমান—১৫

বিষয় কোড :

2 6 5

সেট :

গ

[বিশেষ শ্রুতি: সরবরাহকৃত বহুনির্বাচনি অতীক্ষার উত্তরপত্রে প্রশ্নের ত্রিমিক সন্ধের বিশদীতে প্রদত্ত বর্ণসম্বলিত কৃতসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের কৃতটি বলা পড়েই কলাম দ্বারা সম্পূর্ণ ভরতি কর। প্রতিটি প্রশ্নের মান ১। যে কোনো পনেরোটি প্রশ্নের উত্তর দাও।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেওয়া যাবে না।

১। $\sin 65^\circ + \cos 65^\circ = ?$

(ক) $\frac{\sqrt{3}}{2} \cos 40^\circ$

(খ) $\frac{1}{2} \sin 20^\circ$

(গ) $\frac{\sqrt{3}}{2} \sin 40^\circ$

(ঘ) $\sqrt{2} \cos 20^\circ$

২। $\tan \frac{\alpha}{2} = 7$ হলে $4 \sin \alpha - 3 \cos \alpha = ?$

(ক) 5

(খ) 4

(গ) 3

(ঘ) 6

৩। x এর সাপেক্ষে $e^{\sin^2 x}$ এর অন্তরক কোনটি?

(ক) $e^{\sin^2 x} \sin 2x$

(খ) $2e^{\sin^2 x} \sin x$

(গ) $-e^{\sin^2 x} \sin 2x$

(ঘ) $e^{\sin^2 x}$

৪। $y = ax(1-x)$ বক্ররেখার মূলবিন্দুতে ঢাল কত?

(ক) $-a$

(খ) a

(গ) $a - 2ax$

(ঘ) $a + 2ax$

৫। $\frac{d}{dx} (\log_{10} x)$ এর মান কোনটি?

(ক) $\frac{1}{x}$

(খ) $\frac{1}{x} \log_{10} e$

(গ) $\frac{1}{x} \log_e 10$

(ঘ) $\log_{10} e$

৬। $\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = ?$

(ক) 0

(খ) ∞

(গ) 1

(ঘ) -1

৭। $I = \int_1^e \frac{dx}{x(1+\ln x)}$ হলে I এর মান কত?

(ক) e

(খ) $e + 1$

(গ) $\ln e - 1$

(ঘ) $\ln 2$

৮। $f(x) = 4x$ হলে—

$\int \frac{dx}{f(x)} = \frac{1}{4} \ln x + c$

$\int e^{f(x)} dx = \frac{1}{4} e^{4x} + c$

$\int_0^2 f(x) dx = 8$

নিচের কোনটি সঠিক?

(ক) i ও ii

(খ) i ও iii

(গ) ii ও iii

(ঘ) i, ii ও iii

৯। $-\int_2^1 \ln x dx$ এর মান কোনটি?

(ক) $2 \ln 2 - 1$

(খ) $2 \ln 2 + 1$

(গ) $2 \ln 2$

(ঘ) $\ln 2$

১০। $\int_0^{\frac{\pi}{4}} \sec \theta d\theta = ?$

(ক) $\frac{1}{2} \ln 2$

(খ) $\frac{1}{2} \ln (\sqrt{2} + 1)$

(গ) $\ln (\sqrt{2} + 1)$

(ঘ) $\ln (\sqrt{2} - 1)$

১১। A, B এবং C ম্যাট্রিক্সের মাত্রা কথাক্রমে ৩, ৩, ৪

এবং $(B + A^T) \cdot C^T$ ম্যাট্রিক্সের মাত্রা কত?

(ক) 3×4

(খ) 3×7

(গ) 4×3

(ঘ) 4×7

[পর পৃষ্ঠা শ্রুতি]

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SA Adler



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