

সিলেট বোর্ড

বহুনির্বাচনি অধীক্ষা

উচ্চতর শনিত

দ্বিতীয় পত্র

[২০২০ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

2

6

6

সেট :

ঘ

[বিশেষ দ্রষ্টব্য: সরবরাহকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রত্যেক প্রশ্নের ত্রৈমিক নম্বরের বিপরীতে প্রদত্ত কনিষ্ঠলিখিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বস পায়েন্ট কলাম দ্বারা সম্পূর্ণ করতে কর। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। $\operatorname{cosec}^2\left(\tan^{-1}\frac{1}{2}\right) - \sec^2\left(\cot^{-1}\sqrt{3}\right)$ এর মান
নিচের কোনটি?

☒ (ক) $\frac{11}{3}$
(খ) $\frac{13}{3}$ (গ) $\frac{35}{9}$ (ঘ) $\frac{37}{9}$

২। $\sin^{-1}\frac{2a}{1+a^2} + \cot^{-1}\frac{1-b^2}{2b} = 2\tan^{-1}x$ হলে x এর
মান—

(ক) $a+b$ (খ) $a-b$ (গ) $\frac{a-b}{1+ab}$ ☒ (ঘ) $\frac{a+b}{1-ab}$

৩। n পূর্ণসংখ্যা হলে, $\cos 3\theta = \frac{1}{2}$ সমীকরণের সমাধান
কোনটি?

(ক) $\frac{2}{3}n\pi - \frac{\pi}{9}$ (খ) $\frac{2}{3}n\pi + \frac{\pi}{9}$ ☒ (গ) $\frac{2}{3}n\pi \pm \frac{\pi}{9}$ (ঘ) $\frac{2}{3}n\pi \pm \frac{\pi}{9}$

৪। $\cos\theta - \sin\theta = 0$ হলে θ এর মান কত?

(ক) 30° ☒ (খ) 45° (গ) 60° (ঘ) 120° 

উপরের তথ্যের আলোকে ৫ ও ৬ নং প্রশ্নের উত্তর
দাও :

৫। A বিন্দু হতে লব্ধির ত্রিভুজবিশুদ্ধ দূরত্ব কত মিটার?

(ক) 3

☒ (খ) 4

(গ) 5

(ঘ) 6

৬। বলদ্বয় বিলম্ব হলে লব্ধির মান কত?

(ক) 1

☒ (খ) 2

(গ) 4

(ঘ) 10

৭। কোনো বিন্দুতে $\sqrt{3}$, 2 ও 1 একক বলদ্বয় ক্রিয়া করে
সামান্যদায় আছে। ক্ষুদ্রতম বলদ্বয়ের মধ্যকণী কোণ কত?

(ক) 30° (খ) 60° ☒ (গ) 90° (ঘ) 120°

৮। প্রান্তের কোণ μ এবং মৌলিক কোণ ν , মৌলিক প্রান্তের
বিপরীত দিকে চালালে প্রান্তের সাপেক্ষে মৌলিকটির
অপেক্ষিক কোণ কত?

(ক) $\mu + \nu$ (খ) $\mu - \nu$ (গ) ν (ঘ) $\nu - \mu$

৯। μ আনিলেবে অনুভূমিকের সাথে α কোণে শূন্য দিকের
হলে t সময় পরে কোনো প্রক্ষেপক $P(x, y)$ বিন্দুতে
পৌঁছলে—

I. অনুভূমিক দূরত্ব, $x = u \cos \alpha \cdot t$

সঠিক উত্তর: শুধু (i)

II. উল্লম্ব দূরত্ব, $y = u \sin \alpha \cdot t + \frac{1}{2} g t^2$ III. লব্ধির সঠিকতর $y = x \tan \alpha \left(1 - \frac{R}{x}\right)$;যেখানে $R = \frac{u^2 \sin^2 \alpha}{g}$ —অনুভূমিক দূরত্ব

নিচের কোনটি সঠিক?

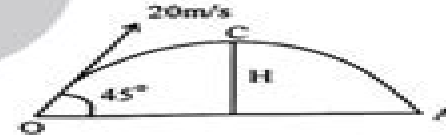
(ক) I ও II

(খ) I ও III

(গ) II ও III

(ঘ) I, II ও III

নিচের তথ্যের আলোকে ১০ ও ১১ নং প্রশ্নের উত্তর
দাও :



O বিন্দু হতে একটি বলকে তীব্রকভাবে ঠুঁকে দেওয়া
হলো। বলটির প্রতিপদের সর্বোচ্চ বিন্দু C এবং বলটি T
সময় পরে নিম্নোক্ত বিন্দুতে সমতলে A বিন্দুতে ফিরে
আলো।

১০। বলটির সর্বোচ্চ অনুভূমিক দূরত্ব কত মিটার?

(ক) 56-4

(খ) 48-5

(গ) 45-4

☒ (ঘ) 40-8

[পর পৃষ্ঠা দ্রষ্টব্য]

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