

দক্ষিণবঙ্গীয় অসীমতা

সমন্বিতিকরণ

প্রথম পত্র

[২০২০ সালের বিশেষায়িত অনুষ্ঠান]

সময়—২৫ মিনিট

মূল্য—২৫

রাজশাহী বোর্ড

বিষয় কোড : 1 7 4

গ্রেড : ক

[বিশেষ প্রদীপ : সমন্বিতিকরণ দক্ষিণবঙ্গীয় অসীমতার উত্তরণের প্রস্তাব প্রদান করা হয়েছে। বিশেষায়িত প্রথম দক্ষিণবঙ্গীয় বৃত্তান্তের হতে সঠিক/সমীচীন উত্তরের দৃষ্টিতে কল পরীক্ষা করার জন্য সম্পূর্ণ জবাবটি কর। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নগুলো কোনো কোনো দাপ/চিত্র দেয়া হয়েছে।

১. নিচের কোনটি ভেক্টরের অর্ধ?

- (ক) $\vec{v}$
(খ) $\vec{v} \cdot \vec{v}$
(গ) $\vec{v} \times \vec{v}$
(ঘ) v^2

২. $\hat{i} \times (\hat{j} \times \hat{k}) = ?$

- (ক) ০
(খ) $\hat{i}$
(গ) $\hat{j}$
(ঘ) $\hat{k}$

৩. একটি কণার ও একটি বৈদ্যুতিক সার্কিটের একটি বিন্দু বিন্দুতে v_c ও v_m বেগে পরিচালিত হলে কণার সার্কিটের বৈদ্যুতিক সার্কিটের আবেগিক বেগ কত?

- (ক) $v_c - v_m$
(খ) $v_m - v_c$
(গ) $v_c + v_m$
(ঘ) $\frac{v_c}{v_m}$

৪. $\vec{P} = -3\hat{i} + 7\hat{j} - 3\hat{k}$, $\vec{Q} = 5\hat{i} - 2\hat{j} + 2\hat{k}$, σ এর মান কত হলে ভেক্টর দুটি লম্ব হবে?

- (ক) -2
(খ) 3
(গ) -3
(ঘ) 11-67

৫. কোনও ভরবেগের একক কোনটি?

- (ক) $\text{Kgm}^2\text{s}^{-2}$
(খ) $\text{Kgm}^2\text{s}^{-3}$
(গ) $\text{Kgm}^{-1}\text{s}^{-2}$
(ঘ) $\text{Kgm}^2\text{s}^{-1}$

৬. একটি বৈদ্যুতিক পাখা প্রতি মিনিটে ৭০ বার ঘুরছে। এর কৌণিক বেগ কত?

- (ক) $\frac{\pi}{3} \text{ rads}^{-1}$
(খ) $3\pi \text{ rads}^{-1}$
(গ) $90\pi \text{ rads}^{-1}$
(ঘ) $180\pi \text{ rads}^{-1}$

৭. কৌণিক ভরবেগের পরিবর্তনের হার নিচের কোনটির সমান?

- (ক) বল
(খ) কৌণিক ত্বরণ
(গ) টর্ক
(ঘ) ভরবেগের আবেগ

৮. ক্রিয়া ও প্রতিক্রিয়া বলের মধ্যে কোণের মান কত?

- (ক) ০ rad
(খ) $\pi \text{ rad}$
(গ) $2\pi \text{ rad}$
(ঘ) $3\pi \text{ rad}$

৯. ৪kg ও ৭kg ভরের দুটি বস্তু সমান ভরবেগে পরিচালিত। এদের গতিশক্তির অনুপাত কত?

- (ক) ২ : ৩
(খ) ৩ : ২
(গ) ৪ : ৭
(ঘ) ৭ : ৪

১০. কোন স্প্রিংকে ১০ N বল দ্বারা টেনে ৫ cm প্রসারিত করা হলে, স্প্রিং প্রস্থক কত হবে?

- (ক) 0.005 Nm^{-1}
(খ) 0.5 Nm^{-1}
(গ) 2 Nm^{-1}
(ঘ) 200 Nm^{-1}

১১. কালের মান সূচ্য হবে, যদি—

- I. সময় বা ঘটনা
II. কালের বিশেষীকরণ করা হবে
III. অর্থাৎ $\sin \theta = 1$ হয়

নিচের কোনটি সঠিক?

- (ক) I ও II
(খ) II ও III
(গ) I ও III
(ঘ) I, II ও III

১২. নিচের কোনগুলোর মধ্যে কোনটির মাত্রা একই?

- (ক) কাল ও সময়
(খ) কাল ও দূরত্ব
(গ) বল ও ভর
(ঘ) বল ও টর্ক

[পর পৃষ্ঠা প্রদীপ]

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