

দক্ষিণবঙ্গীয় অসীমতা

সমন্বিতিকরণ

প্রথম পত্র

[২০২০ সালের বিশেষায়িত অনুষ্ঠান]

সময়—২৫ মিনিট

মূল্যমান—২৫

## রাজশাহী বোর্ড

বিষয় কোড : 1 7 4

গ্রেড : ক

[বিশেষ প্রদীপ্ত : সমন্বিতিকরণ দক্ষিণবঙ্গীয় অসীমতার উত্তরণসময় প্রস্তাবিত প্রথমিক পর্যায়ে বিপরীতে প্রথম দক্ষিণবঙ্গীয় বৃত্তসমূহ হতে সঠিক/সমীচীন উত্তর দৃষ্টি করে পরোক্ষভাবে সম্পূর্ণ জ্ঞানটি করে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নসমূহে কোনো প্রকার সাপেক্ষ নেই।

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

- (ক) -2  
(খ) 3  
(গ) -3  
(ঘ) 11-67

৫. কোনক 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 কোনটির 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) 2 : 3  
(খ) 3 : 2  
(গ) 4 : 9  
(ঘ) 9 : 4

১০. কোন স্প্রিংকে 10 N বল দ্বারা টেনে 5 cm প্রসারিত করা হলে, স্প্রিং প্রবল কত হবে?

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

১১. ক্রান্তের মান সূচ্য হবে, যদি—

- I. সূচ্য বা ঘটিলে  
II. ক্রান্তের বিপরীতে সরল হলে  
III. অক্ষ  $\sin\theta = 1$  হয়

নিচের কোনটি সঠিক?

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

১২. নিচের কোনকগুলোর মধ্যে কোনটির মাত্রা একই?

- (ক) ক্রান্ত ও ক্রান্ত  
(খ) ক্রান্ত ও গতি  
(গ) বল ও ক্রান্ত  
(ঘ) বল ও টর্ক

[পর পৃষ্ঠা প্রদীপ্ত]

# Mh Hsc Physics Mcq

**Neville G. Warren**



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