

বহুনির্বাচনি অধীক্ষা

পদার্থবিজ্ঞান

[২০২১ সালের দিলেবাস অনুযায়ী]

প্রথম পত্র

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

1 7 4

সেট :

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[বিশেষ প্রটীক : সরবরাহকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বল পয়েন্ট কলাম দ্বারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান ১।]

উত্তরপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। ৪ একক ও ৫ একক মানের দুটি ভেক্টর কোনো বিন্দুতে

60° কোণে ক্রিয়ানীল হলে ফেলার গুণফল হবে—

- (ক) ০ একক (খ) ১ একক
(গ) ১০ একক (ঘ) ১০০ একক

২। \vec{P} ও \vec{Q} এর লব্ধির সর্বনিম্ন মান কোনটি?

- (ক) $|\vec{P}| + |\vec{Q}|$ (খ) $\vec{P} \times \vec{Q}$
(গ) $\vec{P} \cdot \vec{Q}$ (ঘ) $|\vec{P}| - |\vec{Q}|$

৩। ঘূর্ণনরত বস্তুর ক্ষেত্রে, প্রযুক্ত বল ও অবস্থান ভেক্টরের মধ্যবর্তী কোণ θ হলে—

- i. $\theta = 180^\circ$ হলে ঘূর্ণনবল সর্বোচ্চ হবে
ii. $\theta = 0^\circ$ হলে ঘূর্ণনবল সর্বনিম্ন হবে
iii. $\theta = 90^\circ$ হলে ঘূর্ণনবল সর্বোচ্চ হবে

নিচের কোনটি সঠিক?

- (ক) i ও ii (খ) i ও iii
(গ) ii ও iii (ঘ) i, ii ও iii

৪। $(\vec{j} + \vec{k}) \times \vec{k} = ?$

- (ক) \vec{i} (খ) \vec{i}
(গ) \vec{j} (ঘ) \vec{k}

নিচের উদীপকটি পড় এবং ৫ ও ৬নং প্রশ্নের উত্তর দাও :

$$\vec{P} = 2\vec{i} + \vec{j} + \vec{k} \text{ এবং } \vec{Q} = \vec{i} + 2\vec{j} - 2\vec{k}$$

৫। ভেক্টরদ্বয়ের লব্ধির মান কত?

- (ক) $\sqrt{19}$ (খ) 6
(গ) 9 (ঘ) 19

৬। \vec{P} ও \vec{Q} এর লব্ধির সমান্তরাল এক ভেক্টর কোনটি?

- (ক) $\frac{1}{2}\vec{i} + \frac{1}{2}\vec{j} - \frac{1}{6}\vec{k}$
(খ) $\frac{3}{\sqrt{19}}\vec{i} + \frac{3}{\sqrt{19}}\vec{j} - \frac{1}{\sqrt{19}}\vec{k}$
(গ) $\frac{1}{3}\vec{i} + \frac{1}{3}\vec{j} - \frac{1}{9}\vec{k}$
(ঘ) $\frac{3}{19}\vec{i} + \frac{3}{19}\vec{j} - \frac{1}{19}\vec{k}$

৭। জড়তার ভ্রামকের একক কোনটি?

- (ক) kgm (খ) kgm^{-1}
(গ) kgm^2 (ঘ) kgm^{-2}

৮। $\frac{3}{2}$ মোল গ্যাসের জন্য আদর্শ গ্যাসের সমীকরণ হবে—

- (ক) $3PV = 2RT$ (খ) $2PV = \frac{1}{3}RT$
(গ) $2PV = 3RT$ (ঘ) $\frac{PV}{RT} = \frac{2}{3}$

৯। STP তে সকল গ্যাসের মোলার আয়তন—

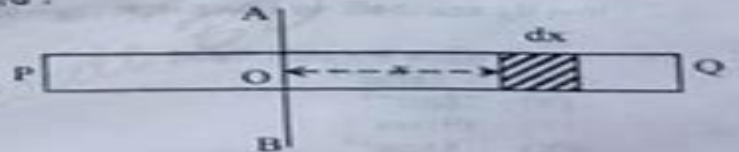
- (ক) 22.4L (খ) 22.9L
(গ) 28.4L (ঘ) 22.8L

১০। চিত্রে বলের ভ্রামক τ হলে কোনটি সঠিক?



- (ক) $\tau = r \times F$ (খ) $\tau = d \times F$
(গ) $\tau = \vec{r} \cdot \vec{F} \sin \theta$ (ঘ) $\tau = \vec{d} \cdot \vec{F} \sin \theta$

নিচের উদীপকটি পড় এবং ১১ ও ১২নং প্রশ্নের উত্তর দাও :



চিত্রে সূত্র ও সুস্থম দলের ভর M এবং দৈর্ঘ্য L।

১১। দণ্ডটির dx অংশের ভর কোনটি?

- (ক) $ML^{-1}dx$
(খ) $LM^{-1}dx$
(গ) MLx
(ঘ) $Mx^{-1}dx$

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M Woodhall



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