

বহুনির্বাচনি অধীক্ষা

শিক্ষাবিভাগ

প্রথম পত্র

[২০২৪ সালের শিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

দিনাজপুর বোর্ড

বিষয় কোড :

1 7 4

সেট :

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[বিশেষ প্রকৃতি : সবসময়কৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রস্তাবিত ত্রৈমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত ক্রসসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের ক্রটিটি কল পড়েটি কলম দ্বারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান ১। সকল প্রশ্নের উত্তর দাও।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

- ১। স্কেরোমিটারের সাহায্যে কোনো গোলাীয় তলের বক্রতার ব্যাসার্ধ নির্ণয়ের সহীকরণ কোনটি? (যেখানে রাশিগুলি প্রচলিত অর্থ বহন করে।)

(ক) $R = \frac{d^2}{6h} + \frac{h}{2}$ (খ) $R = \frac{d^2}{6h} - \frac{h}{2}$
(গ) $R = \frac{d^2}{2h} + \frac{h}{6}$ (ঘ) $R = \frac{d^2}{2h} - \frac{h}{6}$

- ২। স্কেরোমিটারের লম্বিত ক্রুরক হলো—

- i. স্কেরোমিটার ক্ষুদ্রতম যে দৈর্ঘ্য সঠিকভাবে পরিমাপ করতে পারে।
ii. ক্রুরকার স্কেলকে একবার ঘুরালে ত্রৈমিক স্কেল ক্রুরকার যে সরণ হয়।
iii. স্কেরোমিটারের নিচ একক ক্রুরকার স্কেলের ভাগসংখ্যার অনুপাত।

নিচের কোনটি সঠিক?

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

- ৩। নিচের কোনটি ভেক্টর রাশি?

- (ক) ভর (খ) আয়তন
(গ) ক্ষেত্রফল (ঘ) চাপ

৪। $\hat{i} \times (\hat{j} \times \hat{k}) = ?$

- (ক) \hat{i} (খ) 0
(গ) 1 (ঘ) $-\hat{i}$



উপরের চিত্রটি লক্ষ কর এবং ৫ ও ৬ নং প্রশ্নের উত্তর দাও।

- ৫। \vec{OR} ভেক্টরটির নিচের কোনটি?

(ক) $2\hat{i} + 2\hat{j}$ (খ) $2\hat{j} + 2\hat{k}$
(গ) $2\hat{i} + 2\hat{k}$ (ঘ) $2\hat{i} + 2\hat{j} + 2\hat{k}$

- ৬। OPR ভেক্টর স্কেলার হিসেবে কোনটি?

(ক) $\frac{1}{4}$ (খ) $\frac{1}{2}$
(গ) 1 (ঘ) 4

- ৭। ত্রৈমিক ভরবেগের মাত্রা কোনটি?

(ক) MLT^{-2} (খ) MLT^{-1}
(গ) ML^2T^{-1} (ঘ) ML^2T^{-2}

- ৮। একটি ক্রুর ক্রুরক থাকবে কখন?

- (ক) বেশ থাকলে
(খ) গতিশক্তি থাকলে
(গ) বল প্রযুক্ত থাকলে
(ঘ) ভরবেগ থাকলে

- ৯। ঘূর্ণনময় একটি ক্রুর ক্ষমতার আয়তক $2 \text{ kg} \cdot \text{m}^2$ । ক্রুরটিকে 10^2 ঘূর্ণন গতিশক্তিতে ঘুরাতে কত কৌণিক বেগের প্রয়োজন?

(ক) 10 rads^{-1}
(খ) $1 \times 10^2 \text{ rads}^{-1}$
(গ) $2 \times 10^2 \text{ rads}^{-1}$
(ঘ) $4 \times 10^2 \text{ rads}^{-1}$

নিচের উল্লীপকটি পড়ে ১০ ও ১১ নং প্রশ্নের উত্তর দাও :

P ও Q স্থানে যথাক্রমে 9m এবং 16m ব্যাসার্ধের দুটি বাকের রাখা আছে। প্রত্যেকটি বাকের ব্যাসার্ধ কোণ 3° । (উভয় স্থানে রাখার দূর 5 m)

- ১০। Q স্থানে রাখার ভিতরের পার্শ্ব অপেক্ষা বাইরের পার্শ্ব কত উচু?

(ক) 0.003 m
(খ) 0.011 m
(গ) 0.262 m
(ঘ) 0.837 m

- ১১। P ও Q স্থানের রাখা দুটিতে কোনো ব্যক্তির সর্বোচ্চ গতিবেগের অনুপাত হবে—

(ক) $\sqrt{3} : \sqrt{4}$ (খ) 3 : 4
(গ) 9 : 16 (ঘ) 81 : 256

[পর পৃষ্ঠা প্রকৃতি]

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Robert R. Redfield



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