

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 গোলায় 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 পরিমিত ত্রুটি হলো—

- i. স্কেরোমিটার ক্ষুদ্রতম যে সৈধ্য সঠিকভাবে পরিমাপ করতে পারে।
ii. কৃত্রিম ত্রুটি থেকে একবারে ত্রুটিতে ত্রৈমিক ত্রুটি বহন করে যে সারণ হয়।
iii. স্কেরোমিটারের নিচ এক কৃত্রিম ত্রুটি থেকে ত্রুটিতে ত্রৈমিক ত্রুটি বহন করে যে সারণ হয়।

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} ভেক্টর নির্ণয়ের 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 ক্ষেত্রের নির্ণয়ের 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 কবুর ত্রুটি থাকবে কখন?

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

- ৯। ঘূর্ণনময় একটি কবুর ক্ষুদ্রতম আয়তন $2 \text{ kg} \cdot \text{m}^2$ । কৃত্রিমক 10^2 ঘূর্ণন গতিশক্তিতে ঘুরতে 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 উদ্ভীপকটি 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]

Hsc Part 1 2015 Physics Mcq

R. K. Jain



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This book delves into Hsc Part 1 2015 Physics Mcq. Hsc Part 1 2015 Physics Mcq is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Hsc Part 1 2015 Physics Mcq, encompassing both the fundamentals and more intricate discussions.

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- Chapter 3: Hsc Part 1 2015 Physics Mcq in Everyday Life
- Chapter 4: Hsc Part 1 2015 Physics Mcq in Specific Contexts
- Chapter 5: Conclusion

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