

সেট : ০২

পদার্থবিজ্ঞান (সৃজনশীল)
[২০২১ সালের সিলেবাস অনুযায়ী]
প্রথম পত্র

বিষয় কোড :

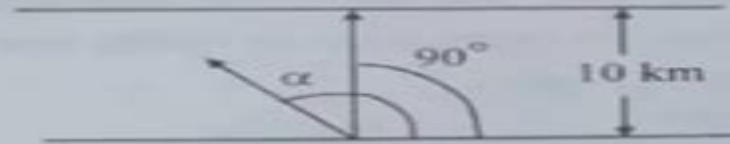
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সময়—২ ঘণ্টা ৩৫ মিনিট

পূর্ণমান—৫০

[দ্রষ্টব্য : ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রদত্ত উদ্দীপকগুলো মনোযোগসহকারে পড় এবং সংশ্লিষ্ট প্রশ্নগুলোর যথাযথ উত্তর দাও। যে কোনো পাঁচটি প্রশ্নের উত্তর দিতে হবে।]

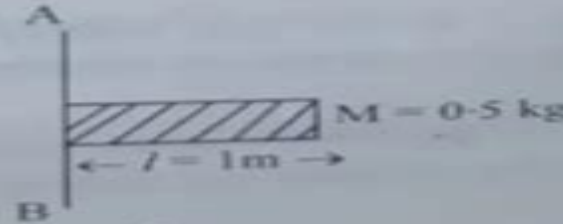
নম্বর



10km প্রস্থবিশিষ্ট একটি নদীতে স্রোতের বেগ 5kmh^{-1} । প্রথম মাঝি 10kmh^{-1} বেগে স্রোতের সাথে α কোণে এবং ২য় মাঝি 10kmh^{-1} বেগে স্রোতের সাথে লম্বভাবে নদী পার হতে যাত্রা করল।

- বলের ঘাত কী?
- ঘর্ষণ বল কি অসংরক্ষণশীল বল? ব্যাখ্যা কর।
- α কোণের মান কত হলে ১ম মাঝি সোজাসুজি নদীর অপর পাড়ে পৌঁছাবে?
- যে কোন মাঝি নদীর অপর পাড়ে আগে পৌঁছাতে পারবে? গাণিতিক বিশ্লেষণসহ মতামত দাও।

২। একটি আয়তাকার দণ্ড যার দৈর্ঘ্য $l = 1\text{m}$ ও ভর $M = 0.5\text{ kg}$.



চিত্র

- গ্র্যাভিয়েন্ট কাকে বলে?
- ভেক্টরের ডাইনামিকেলের বৈশিষ্ট্য কী কী?
- দণ্ডটির জড়তার আমক নির্ণয় কর।
- যদি দণ্ডটিকে 1m ব্যাসের পাকলা চাকতিতে পরিণত করা হয় তবে জড়তার আমকের কোনো পরিবর্তন হবে কি? গাণিতিক বিশ্লেষণ কর।

[পর পৃষ্ঠা দ্রষ্টব্য]

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Wenbin Ji

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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