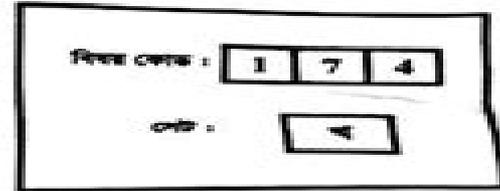


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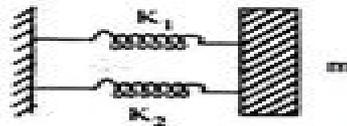
কক্সবাজার জেলা
 কলেজিক্যাল
 প্রথম পত্র
 [২০২৩ সালের বিশেষায়িত অন্তর্ভুক্তি]
 সময়—২৫ মিনিট
 পূর্বসংখ্যা—২৩



বিশেষায়িত প্রশ্ন : সরাসরায়িত কক্সবাজার জেলা কলেজিক্যাল প্রথম পত্র কক্সবাজার কলেজিক্যাল কলেজ থেকে
 সঠিক/সর্বোৎকৃষ্ট উত্তরের ক্রমটি কল পত্রটি কলাম দ্বারা সম্পূর্ণ করতে কর। প্রতিটি প্রশ্নের মান ১।

কক্সবাজার কোনো প্রকার দাণ/ভিক্স দেয়া হবে না।

১। দিগের m ভরের বস্তুটির কৌণিক কম্পাঙ্ক কোনটি?



- (ক) $\omega = \sqrt{\frac{k_1 + k_2}{m}}$ (খ) $\omega = \sqrt{\frac{m}{k_1 + k_2}}$
- (গ) $\omega = \sqrt{\frac{k_1 - k_2}{m(k_1 + k_2)}}$ (ঘ) $\omega = \sqrt{\frac{m(k_1 + k_2)}{k_1 + k_2}}$

২। সমস্ত স্থানিক সঞ্চার পত্রির ক্ষেত্রে পরস্পরসি সর্বেক
 অবস্থান ও সান্যাবস্থানের মধ্যে সন্য পার্থক্য কত?

- (ক) $\lambda/2$ (খ) λ
- (গ) $\frac{3\lambda}{2}$ (ঘ) 2λ

৩। $\vec{P} = \frac{1}{2}\vec{i} + \frac{1}{2}\vec{j} + q\vec{k}$ হলে q এর মান কত হবে যখন
 P ভেক্টরটি একক ভেক্টর হবে?

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

৪। $\vec{M} = 3\vec{j} - 2\vec{k}$ এর উপর লম্ব হচ্ছে—

- I. $4\vec{i}$
- II. $2\vec{j}$
- III. $(2\vec{j} + 3\vec{k})$

দিগের কোনটি সঠিক?

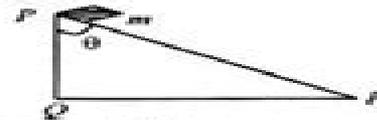
- (ক) I ও II (খ) I ও III
- (গ) II ও III (ঘ) I, II ও III

৫। $5 \frac{d^2x}{dt^2} + 180x = 0$ সঠিকভাবে কৌণিক কম্পাঙ্ক কত
 একক?

- (ক) 180 (খ) 36
- (গ) 6 (ঘ) 5

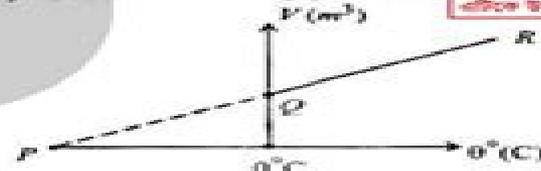
দিগের উল্লিখিতটি লক্ষ্য করা এবং θ ও ϕ না হলে প্রশ্নের উত্তর
 দাও :

P বিন্দুতে ভাষা m ভরের বস্তুটি P বিন্দু হতে PR দিকের R
 বিন্দুতে আসে।



- ৬। P হতে R এ বস্তুটি পৌঁছতে—
 - (ক) সমান্তরালে সমান্তরালে
 - (খ) লম্বভাবে (গ) অসম তুললে
- ৭। PR তলে P হতে R দিকের বস্তুটির উপর ক্রিয়াশীল বল—
 - $mg \cos\theta$ (খ) $mg \sin\theta$
 - (গ) $mg \cot\theta$ (ঘ) $mg \tan\theta$
- ৮। একটি সেকেন্ড সোলারের কার্যকারিতা সৈধ্য 25-6%
 কৃষ্টি করা হলে সোলারকাল কৃষ্টি হবে—
 - 12% (খ) 24-1%
 - (গ) 25-6% (ঘ) 50%
- ৯। কোনো আর্দ্র বায়ুর তাপমাত্রা কেলভিন স্কেলে তিনগুন
 করা হলে, তার আর্দ্রত্বের সুলভতা কতকাল কতকাল কৃষ্টি
 পাবে?
 - (ক) 0 (খ) 3
 - (গ) 1-732 (ঘ) -0.732

সুল ভবু কতকাল 0.73 কাল কৃষ্টি পাবে
 ঠিক তাপমাত্রা -0.73 কতকাল সুল ভবু
 কতকাল কৃষ্টি সৈধ্য 1.732 কাল হলে।
 প্রতিটি উত্তর সৈধ্য ১।



১০। স্থির তাপে বায়ুর তাপমাত্রার সন্যে আর্দ্রত্বের পরিবর্তনের
 সৈধ্যতে P বিন্দুর তাপমাত্রা হচ্ছে—

- I. 0°C
- II. 0K
- III. -273°C

দিগের কোনটি সঠিক?

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

[সন্য কৃষ্টি ব্রটইন]

Electrostatics Hsc Physics Mcq

Camilla Rothe



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