

ঢাকা বোর্ড

অধিদপ্তর/অসীম
কম্পিউটার
প্রথম পত্র
(২০২৩ সালের নিম্নোক্ত অনুসূচী)
সময়—২৫ মিনিট
পূর্ণমান—২৫

বিষয় কোড :

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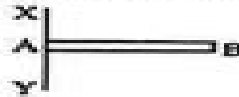
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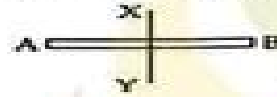
[বিশেষ নোট : পরবর্তীকৃত অধিদপ্তর/অসীম উত্তরণে প্রাপ্ত প্রথম পত্রের বিপরীতে প্রাপ্ত কনিষ্ঠতার বৃত্তসমূহ হতে সঠিক/সর্বোত্তম উত্তরের বৃত্তটি বলা পরোক্ষ কলাম দ্বারা সম্পূর্ণ করতে কর। প্রতিটি প্রশ্নের মান ১।]

প্রদত্ত কোন কোন একক বাস/কি সেটা জানে না।

নিম্নের উদাহরণটি পড় এবং ১ ও ২নং প্রশ্নের উত্তর দাও।
নিম্নের তিন বৃত্তিতে 1 kg ভর এবং 1 m দৈর্ঘ্যের একটি
স্থূলক বস AB-এর লম্বাঘাটী অক্ষ XY' সমান্তরালে ঘুরছে।



চিত্র-১



চিত্র-২

১। চিত্র-১ ও চিত্র-২ এ উদ্ভূত বসের জড়তার আনকসময়ের
অনুপাত হলো—

- (ক) 1 : 1
(গ) 1 : 4

- (খ) 1 : 2
(ঘ) 4 : 1

২। চিত্র-১ অনুযায়ী বসটির ঘূর্ণনটির ব্যাসার্ধের মান—

- (ক) $\frac{1}{\sqrt{2}}$ m
(গ) $\frac{2}{\sqrt{3}}$ m

- (খ) $\frac{1}{\sqrt{3}}$ m
(ঘ) $\frac{1}{3\sqrt{2}}$ m

৩। কেন্দ্রস্থলী বল দ্বারা কৃত কাজ—

- (ক) শূন্য
(গ) অসীম

- (খ) ধনাত্মক
(ঘ) ঋণাত্মক

৪। ক্ষমতার একক হলো—

- I. $J s^{-1}$
II. Watt
III. erg s⁻¹

নিচের কোনটি সঠিক?

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

৫। একটি সেন 100kg ভরের একটি ব্লককে 0.1 ms⁻¹
দ্রুতবেগে উপরে তুলছে। সেনটির ক্ষমতা—

- (ক) 9.8 Watt
(গ) 980 Watt

- (খ) 98 Watt
(ঘ) 9800 Watt

৬। মহাকর্ষীয় বিভবের একক হলো—

- (ক) $N m^{-2}$
(ঘ) $N k g^{-1}$
(খ) $N k g^{-1}$
(গ) $N m^{-1}$

৭। তর ও দিক দ্বারা হাইড্রোমিটারের সার্বমিটার পুটির
পাঠের পার্থক্য হঠাৎ কমেতে থাকলে বুঝতে হবে—

- I. বায়ুতে জলীয় বাষ্পের পরিমাণ হঠাৎ বেড়ে গেছে
II. তর-পুটির সম্মাননা রয়েছে
III. আবহাওয়া তর থাকবে

নিচের কোনটি সঠিক?

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

নিম্নের উদাহরণটি পড় এবং ৮ ও ৯নং প্রশ্নের উত্তর দাও।

কোনো অবর্ণা ব্যাসের তিনটি অণুর বেগ 15 ms⁻¹,
20 ms⁻¹ ও 25 ms⁻¹। ব্যাসের অণুসমূহের কেন্দ্রে পড়

বেগ (\vec{C}), পড় বর্ণবেগ (\vec{C}^2) এবং স্থল পড় বর্ণবেগ
 $\sqrt{\vec{C}^2}$ তিনটি গুরুত্বপূর্ণ রাশি।

৮। শ্যাম অণুসমূহের স্থল পড় বর্ণবেগের মান হলো—

- (ক) 20 ms⁻¹
(গ) 60 ms⁻¹
(খ) 20-41 ms⁻¹
(ঘ) 416-67 ms⁻¹

৯। উদাহরণ অনুযায়ী $\vec{C} : \vec{C}^2 : \sqrt{\vec{C}^2} = ?$

- (ক) 1 : 20-83 : 1-02
(খ) 20-83 : 1 : 1-02
(গ) 1-02 : 1 : 20-83
(ঘ) 1 : 1-02 : 20-83

১০। সঠিক ছদ্মকৃত স্পন্দনবিধি কোন কোন কলাম বরা দ্বারা স্পন্দিত
হবার কারণ—

- I. স্থিতি জড়তা
II. গতি জড়তা
III. প্রত্যাহারী বল

নিচের কোনটি সঠিক?

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

[পর পৃষ্ঠা প্রদর্শন]

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Tobias Bleicker



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