

অধিদপ্তর
কম্পিউটার
একক
(২০২৩ সালের নিম্নোক্ত অনুষ্ঠান)
সময়—২৫ মিনিট
পূর্বসূচী—২৫

ঢাকা বোর্ড

বিষয় কোড : 1 7 4

পেজ : ৮

[বিশেষ নোট : পরবর্তীকৃত অধিদপ্তর অধীকার উত্তরপত্র প্রাপ্তির ক্ষেত্রে অধিদপ্তর কর্তৃক প্রদত্ত নথি অনুসরণ করে অধিদপ্তর/অধিদপ্তর উত্তরপত্র প্রাপ্তি করা সম্পূর্ণ ভাবে করা। প্রতিটি প্রশ্নের মান ১।]

প্রদত্ত কোন কোন একক বাস/কি/সেতা করে না।

নিম্নের উদাহরণটি পড় এবং ১ ও ২নং প্রশ্নের উত্তর দাও।
নিম্নের তিন পৃষ্ঠিতে 1 kg ভর এবং 1 m দৈর্ঘ্যের একটি
স্থির বস্তু AB-এর লম্বাঘনীয় অক্ষ XY' সাপেক্ষে ঘুরছে।



চিত্র-১



চিত্র-২

- ১। চিত্র-১ ও চিত্র-২ এ উদ্ভূত বস্তুর ঘূর্ণনীয় ভ্রমণের
অনুপাত হলো—
(ক) 1 : 1 (খ) 1 : 2
(গ) 1 : 4 (ঘ) 4 : 1
- ২। চিত্র-১ অনুযায়ী বস্তুর ঘূর্ণনীয় ভ্রমণের মান—
(ক) $\frac{1}{\sqrt{2}}$ m (খ) $\frac{1}{\sqrt{3}}$ m
(গ) $\frac{2}{\sqrt{3}}$ m (ঘ) $\frac{1}{3\sqrt{2}}$ m
- ৩। কেন্দ্রস্থলী বল দ্বারা কৃত কাজ—
(ক) শূন্য (খ) ধনাত্মক
(গ) ঋণাত্মক (ঘ) অসীম
- 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 (খ) 98 Watt
(গ) 980 Watt (ঘ) 9800 Watt

- ৬। মহাকর্ষীয় বিভবের একক হলো—
(ক) Nm⁻² (খ) Nkg⁻¹
(গ) Jkg⁻¹ (ঘ) Nm⁻¹
- ৭। তর ও সিক বায়ু হাইড্রোমিটারের সার্বমিটার পুটির
পাঠের পার্থক্য হঠাৎ কমেতে থাকলে বুঝতে হবে—
I. বায়ুতে জলীয় বাষ্পের পরিমাণ হঠাৎ বেড়ে গেছে
II. তর-পুটির সম্ভাবনা রয়েছে
III. আবহাওয়া তর থাকবে
নিচের কোনটি সঠিক?
(ক) I ও II (খ) I ও III
(গ) II ও III (ঘ) I, II ও III
- ৮। নিম্নের উদাহরণটি পড় এবং ১ ও ২নং প্রশ্নের উত্তর দাও।
কোনো অবশ্য গ্যাসের তিনটি অণুর বেগ 15 ms⁻¹,
20 ms⁻¹ ও 25 ms⁻¹। গ্যাসের অণুসমূহের কেন্দ্রে পড়
বেগ ($\vec{C}$), পড় বর্গবেগ ($\vec{C}^2$) এবং মূল পড় বর্গবেগ
 $\sqrt{\vec{C}^2}$ তিনটি গুরুত্বপূর্ণ রাশি।
- ৯। গ্যাস অণুসমূহের মূল পড় বর্গবেগের মান হলো—
(ক) 20 ms⁻¹ (খ) 20.41 ms⁻¹
(গ) 60 ms⁻¹ (ঘ) 416.67 ms⁻¹
- ১০। 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 সত্যকথনটি কোন কোন কথার বর দ্বারা সত্যকৃত
হবার কারণ—
I. স্থিতি জড়তা
II. গতি জড়তা
III. প্রত্যক্ষী বল
নিচের কোনটি সঠিক?
(ক) I ও II (খ) I ও III
(গ) II ও III (ঘ) I, II ও III

[পর পৃষ্ঠা প্রাপ্ত]

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Michal Rosen-Zvi



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