

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

ঢাকা বোর্ড

বিষয় কোড :

1 7 4

পেজ :

৮

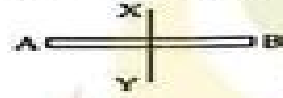
[বিশেষ নোট : পরবর্তীকৃত অধিদপ্তর অধীকার উত্তরপত্র প্রাপ্তির ক্ষেত্রে অধিক সময়ের বিপরীতে প্রাপ্ত কনিষ্ঠতার বৃত্তসমূহ হতে সঠিক/সর্বোত্তম উত্তরের বৃত্তটি বলা পরোক্ষ কলাম দ্বারা সম্পূর্ণ করতে হবে। প্রতিটি প্রশ্নের মান ১।]

প্রদত্ত কোন কোন একক বাস/কিছু নেই।

নিম্নের উদ্ভীপকটি পড় এবং ১ ও ২নং প্রশ্নের উত্তর দাও।
নিম্নের তিন বৃত্তকে 1 kg ভর এবং 1 m দৈর্ঘ্যের একটি
স্থবল বস AB-এর লম্বাঘাটী অক্ষ XY' সাপেক্ষে ঘুরছে।



চিত্র-১



চিত্র-২

১। চিত্র-১ ও চিত্র-২ এ উদ্ভীপিত ঘুরে জড়তার আনকময়ের
অনুপাত হলো—

- (ক) 1 : 1 (খ) 1 : 2
(গ) 1 : 4 (ঘ) 4 : 1

২। চিত্র-১ অনুযায়ী ঘুরার চক্রপথের ব্যাসার্ধের 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 সম্মাননা 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

নিম্নের উদ্ভীপকটি 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 ($\vec{C_1}$) এবং মূল পড় বর্ণবেগ
 $\sqrt{\vec{C_1}}$ তিনটি গুরুত্বপূর্ণ রাশি।

৮। শব্দ অণুসমূহের মূল পড় বর্ণবেগের মান হলো—

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

৯। উদ্ভীপক অনুযায়ী $\vec{C} : \vec{C_1} : \sqrt{\vec{C_1}} = ?$

- (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। সঠক ছদ্মিত স্পন্দনবিধিটি কোনও কলাম বরা বরা স্পন্দিত
হবার কারণ—

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

নিচের কোনটি সঠিক?

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

[পর পৃষ্ঠা প্রদর্শন]

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Russell Tytler



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