

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 বৃত্তপত্র হতে সঠিক/সর্বোত্তম উত্তরের বৃত্তটি বলা পরোক্ষ কলাম দ্বারা সম্পূর্ণ করতে কর। 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 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 উল্লিখিত দণ্ডের আবর্তনের আনকময়ের
অনুপাত হলো—
(ক) 1 : 1 (খ) 1 : 2
(গ) 1 : 4 (ঘ) 4 : 1
- ২। চিত্র-১ অনুযায়ী দণ্ডটির কেন্দ্রবিন্দুর ঘূর্ণনবেগের 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 স্টেন 100kg ভরের একটি ব্লককে 0.1 ms⁻¹
দ্রুতবেগে উপরে তুলছে। স্টেনটির 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। তরু ও সিল বায়ু হাইড্রোমিটারের পার্থক্যটির দৃষ্টি
পাঠের পার্থক্য হঠাৎ কমেতে থাকলে বুঝতে হবে—
I. বায়ুতে জলীয় বাষ্পের পরিমাণ হঠাৎ বেড়ে গেছে
II. তরু-বুটির সম্ভাবনা রয়েছে
III. আবহাওয়া তরু থাকবে
নিচের কোনটি সঠিক?
(ক) I ও II (খ) I ও III
(গ) II ও III (ঘ) I, II ও III
- নিম্নের উদাহরণটি পড় এবং ৮ ও ৯নং প্রশ্নের উত্তর দাও।
কোনো অবর্ণা 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।
- ৮। 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
- 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। সঠক ছদ্মিত স্পন্দনবিধিটি কোনো 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]

Hsc Dhaka Board Question Paper

Mike Jess



Hsc Dhaka Board Question Paper:

Engaging in Educational Research Raqib Chowdhury, Mahbub Sarkar, Foez Mojumder, M Moninoor Roshid, 2018-10-01
This book reflects the paradigm shift now manifesting in Bangladesh's education system by highlighting recent empirical research. It shares essential insights by presenting research conducted on diverse aspects of current day education in Bangladesh including policy and governance equity access and participation curriculum and pedagogy assessment and education programs and projects run by NGOs. Further it offers a platform for these unique studies to be showcased and disseminated to scholars and researchers from developing and developed countries alike and represents a unique reference resource for the education research community in Bangladesh Asia and all over the world. With Foreword from Professor Serajul Islam Choudhury. *Global Perspectives on Value Education in Primary School* Demircioğlu, Aytekin, 2023-08-18
Global Perspectives on Value Education in Primary School is a comprehensive book edited by a renowned philosophy scholar from Kastamonu University Faculty of Humanities and Social Sciences. In this book readers will find a comprehensive account of how value education can be effectively delivered in primary schools worldwide. It presents an extensive collection of case studies and examples of values education from different countries and cultures and examines the criteria for selecting and differentiating values that are suitable for primary school level and the methods and approaches for effectively teaching those values. By comparing different approaches and experiences the book provides valuable insights into the challenges and opportunities for value education in primary schools. This book is highly recommended for anyone interested in values education including academic scholars researchers teachers university students and parents. With its rich and diverse range of perspectives and examples it provides a compelling argument for the importance of values education in our time. Its persuasive problem and solution approach makes *Global Perspectives on Value Education in Primary School* an essential addition to the literature on education and philosophy. **Commonwealth Universities Yearbook**, 1985 **Bāṃlādeśa jātīya granthapañjī**, 1981 *10 Last Years Solved Papers (HSC) - Science* Gurukul Books, 2019-08-23 **General Paper**, 1981

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