

বহুনির্বাচনি অধীক্ষা

পদার্থবিজ্ঞানে

দ্বিতীয় পত্র

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বরিশাল বোর্ড

বিষয় কোড :

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সেট :

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[বিশেষ প্রকৃতি: সমস্তপ্রদত্ত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রদত্ত ত্রুটি নথির বিপরীতে প্রদত্ত বহুনির্বাচনি প্রশ্নসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের সূত্রটি বসে পাঠ্যক্রম অনুযায়ী সঠিকভাবে উত্তর দিতে হবে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১. তাপমাত্রায় প্রতিসরাঙ্ক কেন্দ্রে কোনটি সঠিক?



$d_s = 0$



$dV = 0$



$dQ \neq 0$



$dW = dQ$

২. তাপমাত্রায় কেন্দ্রে কোন তাপমাত্রায় সেলসিয়াস স্কেলের পার্থক্য বিদ্যমান হবে?

(ক) 12.31°



(খ) 22.15°



(গ) 160.00°



(ঘ) 288.00°

৩. পরিবাহীত্বের একক নিচের কোনটি?



ΛV^{-1}



(খ) $V \Lambda^{-1}$



(গ) ΛV



(ঘ) $\Lambda^{-1} V^{-1}$

৪. এনট্রপি সম্পর্কে বলা যায়—

I. প্রথম মানে নির্ণয় করা যায় না

II. পরিবর্তন করা যায় হতে পারে

III. পরিবর্তন করা যায় হতে পারে

নিচের কোনটি সঠিক?



(ক) I ও II



(খ) I ও III



(গ) II ও III



(ঘ) I, II ও III

৫. একটি পদার্থের আপেক্ষিক ঘনত্ব $1.8 \times 10^{-8} \Omega m$ ।3mm ব্যাসের কত সৈরীর তারের ঘনত্ব 12Ω হবে?

(ক) $2.12 \times 10^{-4} m$



(খ) $4.71 \times 10^3 m$



(গ) $1.88 \times 10^4 m$



(ঘ) $1.88 \times 10^{10} m$

৬. অক্ষত্বের ছবি তুলতে ক্যামেরায় ব্যবহার হয়—

(ক) অতি বেগনি রশ্মি



(খ) অলংকারিত রশ্মি

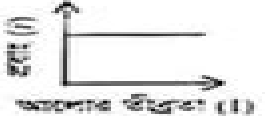


(গ) মহিলা-০০০০

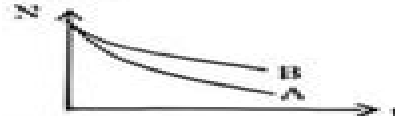


(ঘ) লাল রশ্মি

৭. আপেক্ষিক বলের সম্পর্ক স্থির হলে তাহলে তড়িৎচৌম্বক প্রবাহ বাহ্যে কনাম আলোর তীব্রতা অনুসারে কোন লেন্সটি সঠিক?



৮. A ও B দুটি বৈদ্যুতিক পদার্থের মধ্যে কোনটি সঠিক লেন্সটি নির্দেশ করে:



I. A বৈদ্যুতিক তড়িৎচৌম্বক তরঙ্গ

II. B বৈদ্যুতিক তড়িৎচৌম্বক তরঙ্গ

III. B বৈদ্যুতিক তরঙ্গ হতে অধিক সময় লাগে

নিচের কোনটি সঠিক?



(ক) I ও II



(খ) I ও III



(গ) II ও III



(ঘ) I, II ও III

৯. একটি বৈদ্যুতিক বর্তন দুই প্রান্তের বিভব পার্থক্য ২০০ ভোল্ট হলে বর্তনের ক্ষমতা কত শতাংশ হতে পারে?



(ক) ৪%



(খ) ২%



(গ) ১%



(ঘ) ০.৫%

১০. ইচ্ছা এর বি-ভিত্তিক পরীক্ষায় চিত্রকর্মের মধ্যবর্তী দৃষ্টান্ত তিনটি দেওয়া হয়েছে।

(ক) সত্যকর্ম হবে

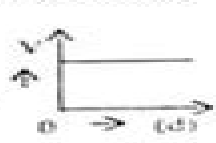
(খ) ত্রুটিকর্ম হবে



(গ) এক ত্রুটিকর্ম হবে

(ঘ) এক সত্যকর্ম হবে

১১. সমস্তকর্মাল পাত খরচের পাত দুটির মধ্যবর্তী দৃষ্টান্ত (d) কৃষ্ণের মাঝে নিচের কোন লেন্স চিত্রটি সঠিক?



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1. Understanding the eBook Hsc Physics 2nd Paper Objective Solution
 - The Rise of Digital Reading Hsc Physics 2nd Paper Objective Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics 2nd Paper Objective Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsc Physics 2nd Paper Objective Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Physics 2nd Paper Objective Solution

- Personalized Recommendations
- Hsc Physics 2nd Paper Objective Solution User Reviews and Ratings
- Hsc Physics 2nd Paper Objective Solution and Bestseller Lists
- 5. Accessing Hsc Physics 2nd Paper Objective Solution Free and Paid eBooks
 - Hsc Physics 2nd Paper Objective Solution Public Domain eBooks
 - Hsc Physics 2nd Paper Objective Solution eBook Subscription Services
 - Hsc Physics 2nd Paper Objective Solution Budget-Friendly Options
- 6. Navigating Hsc Physics 2nd Paper Objective Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Physics 2nd Paper Objective Solution Compatibility with Devices
 - Hsc Physics 2nd Paper Objective Solution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Physics 2nd Paper Objective Solution
 - Highlighting and Note-Taking Hsc Physics 2nd Paper Objective Solution
 - Interactive Elements Hsc Physics 2nd Paper Objective Solution
- 8. Staying Engaged with Hsc Physics 2nd Paper Objective Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Physics 2nd Paper Objective Solution
- 9. Balancing eBooks and Physical Books Hsc Physics 2nd Paper Objective Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Physics 2nd Paper Objective Solution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Physics 2nd Paper Objective Solution
 - Setting Reading Goals Hsc Physics 2nd Paper Objective Solution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Physics 2nd Paper Objective Solution

- Fact-Checking eBook Content of Hsc Physics 2nd Paper Objective Solution
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
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