

বহুনির্বাচনি অধীক্ষা

সমন্বিতবিজ্ঞানে

দ্বিতীয় পত্র

[২০-২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বরিশাল বোর্ড

বিষয় কোড :

1 7 5

সেট :

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[বিশেষ প্রকৃতি: সমন্বিতবিজ্ঞান বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রত্যেক প্রশ্নের সঠিক উত্তরের বিপরীতে সনাক্ত কর্তৃক নির্ধারিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের সূত্রটি বসে পাঠ্যেই কলাম দ্বারা সম্পূর্ণ করতে হবে। সকল প্রশ্নের উত্তর দিতে হবে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১. তাপমাত্রায় প্রতিসরাঙ্ক কেন্দ্রে কোনটি সঠিক?



$d_s = 0$



$dV = 0$

(গ)

$dQ \neq 0$



$dW = dQ$

২. তাপমাত্রা-বিস্তারণ কোefficient কোন তাপমাত্রায় সেলসিয়াস স্কেলের পার্টের বিভব হয়?



12.31°



22.15°

(গ)

160.00°



288.00°

৩. পরিবাহীত্বের একক নিচের কোনটি?



ΛV^{-1}



$V \Lambda^{-1}$

(গ)

ΛV



$\Lambda^{-1} V^{-1}$

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?



$I \text{ ও } II$



$I \text{ ও } III$

(গ)

$II \text{ ও } III$



$I, II \text{ ও } III$

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

$2.12 \times 10^{-4} m$



$4.71 \times 10^3 m$

(গ)

$1.88 \times 10^4 m$



$1.88 \times 10^{10} m$

৬. অক্সিজেন ছবি তুলতে ক্যামেরায় ব্যবহার হয়—

(ক) অতি বেগনি রশ্মি ☒ অসংযোজিত রশ্মি(গ) হাইড্রোজেন ☐ লাম্বা রশ্মি

৭. আপেক্ষিক বলের সম্পর্ক স্থির হলে তাড়িত তড়িৎের প্রবাহ যখন কলাম আলোর তীব্রতা অনুসারে কোন লেন্থটি সঠিক?

(ক)



আলোর তীব্রতা (I)



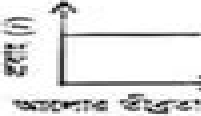
আলোর তীব্রতা (I)

(গ)



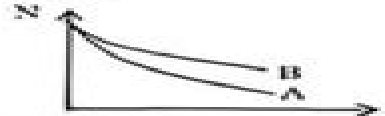
আলোর তীব্রতা (I)

(ঘ)



আলোর তীব্রতা (I)

৮. A ও B দুটি বৈদ্যুতিক পদার্থ সমান ভোল্টেজের সার্কিটে যুক্ত করা হল।



I. A বৈদ্যুতিক তড়িৎপ্রবাহ বেশি
II. B বৈদ্যুতিক তড়িৎপ্রবাহ বেশি
III. B বৈদ্যুতিক ক্ষয় হতে অধিক সময় লাগবে।

নিচের কোনটি সঠিক?



$I \text{ ও } II$



$I \text{ ও } III$

(গ)

$II \text{ ও } III$



$I, II \text{ ও } III$

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



4%



2%

(গ)

1%



0.5%

১০. ইচ্ছা এর বি-ভিত্তিক পরীক্ষায় চিকিৎসকের মধ্যবর্তী দৃষ্টান্ত তিনটি দেওয়া হল।

(ক) সত্যকথা হবে

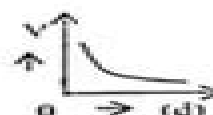
(ঘ) ত্রুটিমূলক হবে

☒ এক ত্রুটিমূলক হবে

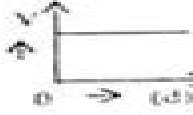
(ঘ) এক সত্যকথা হবে

১১. সমান্তরাল পাত ধরতের পাত দুটির মধ্যবর্তী দূরত্ব (d) বৃদ্ধির সাথে নিচের কোন লেন্থ সঠিক?

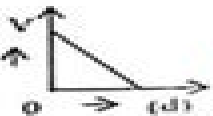
(ক)



(ঘ)



(গ)



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Table of Contents Hsc Physics 2nd Paper Facebook

1. Understanding the eBook Hsc Physics 2nd Paper Facebook
 - The Rise of Digital Reading Hsc Physics 2nd Paper Facebook
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics 2nd Paper Facebook
 - 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 Facebook
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Physics 2nd Paper Facebook
 - Personalized Recommendations
 - Hsc Physics 2nd Paper Facebook User Reviews and Ratings
 - Hsc Physics 2nd Paper Facebook and Bestseller Lists

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

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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