

স্বাক্ষরিত

বহুনির্বাচনি অধীক্ষক

পদার্থবিজ্ঞান

দ্বিতীয় পত্র

[২০২৪ সালের নিম্নোক্তান অধ্যয়ন]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

1 7 5

সেট :

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[বিশেষ প্রটোকল] পরবর্তীকৃত বহুনির্বাচনি অধীক্ষকের উপস্থাপনে প্রাপ্তের তথ্যিক সময়ের বিপরীতে অন্যতর বর্ণিতকৃত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি কল পয়েন্ট কলম দ্বারা সম্পূর্ণ করণ কর। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রের কোনো প্রকার দান/চিহ্ন দেয়া যাবে না।

১। কোন নিউক্লিয়াসটির প্রতি নিউক্লিয়ন বন্ধন শক্তি সর্বোচ্চ?

- ☒ (ক) হিলিয়াম ☐ (খ) অক্সিজেন
☒ (গ) আয়রন ☐ (ঘ) সোনা

২। সমান ধারকত্বের তিনটি ধারক প্রত্যেক প্রেনিতে একা পড়ে সমান্তরালে যুক্ত করা হলো। এই যুক্তকত্বের তুল্য ধারকত্বের অনুপাত কত হবে?

- ☐ (ক) ১ : ৪ ☐ (খ) ১ : ৬
☒ (গ) ১ : ৯ ☐ (ঘ) ১ : ১২

৩। নির্দিষ্ট পরিমাণে প্যাসের অভ্যন্তরীণ শক্তি নির্ভর করে কীসের উপর?

- ☐ (ক) তাপ ☐ (খ) আয়তন
☒ (গ) তাপমাত্রা ☐ (ঘ) প্যাসের

৪। দু'শব্দ প্রবাহের একক কোনটি?

- ☐ (ক) $C^2 N^{-1} m^{-2}$ ☐ (খ) $C^2 N m^{-2}$
☒ (গ) $N m^2 C^{-2}$ ☐ (ঘ) $N m^2 C^2$

৫। নিচের কোন পর্যায়ের পরাণবৃত্তিক প্রবাহের মান সর্বোচ্চ?

- ☐ (ক) বায়ু ☐ (খ) কাগজ
☒ (গ) নিলিকন ☐ (ঘ) পানি

৬। হাইড্রোজেন তরঙ্গ তত্ত্বের সাহায্যে নিচের কোনটি ব্যাখ্যা করা যায় না?

- ☒ (ক) সত্যবর্তন ☐ (খ) অপবর্তন
☐ (গ) ব্যতিচার ☐ (ঘ) প্রতিফলন

৭। ${}^{14}_7\text{N} + {}^4_2\text{He} \rightarrow {}^{16}_8\text{O} + 2 {}^1_1\text{H} + \text{X}$ একটি

নিউক্লিয় বিক্রিয়া। অজানা X হবে একটি—

- ☐ (ক) গামা রশ্মি ☒ (গ) ইলেকট্রন
☐ (খ) আলফা কণা ☐ (ঘ) নিউট্রন

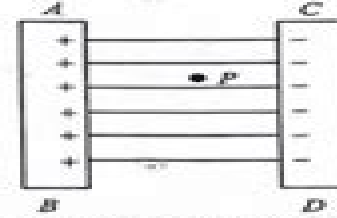
৮। ইলেকট্রন কোনটি (eV) হতে—

- I. 1V বিভব পার্থক্যে একটি ইলেকট্রন সরাসরি কাল
II. কোয়ান্টাম বলবিদ্যায় ব্যবহৃত শক্তির একক
III. $1\text{eV} = 1.6 \times 10^{-19}\text{J}$

নিচের কোনটি সঠিক?

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

৯।



নিচের P বিন্দুতে শূন্য দূরত্বে তড়িৎ প্রাবল্য কত?

- ☒ (ক) $\frac{\sigma}{\epsilon_0}$ ☐ (খ) 0 ☐ (গ) 1 ☒ (ঘ) $\frac{\sigma}{2\epsilon_0}$

১০। একটি রেফ্রিজারেটর শীতল আশ্রয়ের থেকে 450 J তাপ গ্রহণ করে উষ্ণ আশ্রয়ের 600 J তাপশক্তি তর্জন করে। রেফ্রিজারেটরটির কার্যক্ষমতামানসন সহস্র কত?

- ☒ (ক) 3 ☐ (খ) 4 ☐ (গ) 1.83 ☐ (ঘ) 2.33

১১। তাপতানীয় পরিবর্তনের ক্ষেত্রে—

- I. $P_1 V_1^{1-\gamma} = P_2 V_2^{1-\gamma}$
II. $P_1^{1-\gamma} T_1^{\gamma} = P_2^{1-\gamma} T_2^{\gamma}$
III. $T_1^{\gamma} V_1^{1-\gamma} = T_2^{\gamma} V_2^{1-\gamma}$

নিচের কোনটি সঠিক?

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

১২। কোনটি খনাত্মক আধানযুক্ত হিলিয়াম নিউক্লিয়াস?

- ☒ (ক) আলফা কণা ☐ (খ) বিটা কণা
☐ (গ) গামা রশ্মি ☐ (ঘ) এক্স রশ্মি

১৩। আলোর অপবর্তনের ক্ষেত্রে—

- I. কেন্দ্রীয় উজ্জ্বল পটীর তীব্রতা সর্বোচ্চ
II. পূর্ণ অভ্যন্তরীণ বিপ্লু সৃষ্টি হয় না
III. তোরাকসম্পন্ন গ্রহ সমান

নিচের কোনটি সঠিক?

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

[পর পৃষ্ঠা প্রটোকল]

স্বাক্ষরিত

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Table of Contents Hsc 2015 Physics Mcq Solve

1. Understanding the eBook Hsc 2015 Physics Mcq Solve
 - The Rise of Digital Reading Hsc 2015 Physics Mcq Solve
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc 2015 Physics Mcq Solve
 - 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 2015 Physics Mcq Solve
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc 2015 Physics Mcq Solve
 - Personalized Recommendations
 - Hsc 2015 Physics Mcq Solve User Reviews and Ratings

- Hsc 2015 Physics Mcq Solve and Bestseller Lists
- 5. Accessing Hsc 2015 Physics Mcq Solve Free and Paid eBooks
 - Hsc 2015 Physics Mcq Solve Public Domain eBooks
 - Hsc 2015 Physics Mcq Solve eBook Subscription Services
 - Hsc 2015 Physics Mcq Solve Budget-Friendly Options
- 6. Navigating Hsc 2015 Physics Mcq Solve eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc 2015 Physics Mcq Solve Compatibility with Devices
 - Hsc 2015 Physics Mcq Solve Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc 2015 Physics Mcq Solve
 - Highlighting and Note-Taking Hsc 2015 Physics Mcq Solve
 - Interactive Elements Hsc 2015 Physics Mcq Solve
- 8. Staying Engaged with Hsc 2015 Physics Mcq Solve
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc 2015 Physics Mcq Solve
- 9. Balancing eBooks and Physical Books Hsc 2015 Physics Mcq Solve
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc 2015 Physics Mcq Solve
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc 2015 Physics Mcq Solve
 - Setting Reading Goals Hsc 2015 Physics Mcq Solve
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc 2015 Physics Mcq Solve
 - Fact-Checking eBook Content of Hsc 2015 Physics Mcq Solve
 - 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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