

রাজশাহী বোর্ড

১১। ইলেক্ট্রন ঘূর্ণিত পটীকায় চিত্রখন্ডের মূলতঃ তিনগুণ কমে
জোয়ার গ্রাফ অপরিবর্তনীয় থাকতে হলে চিত্রখন্ড থেকে
পটীর মূলতঃ পরিবর্তন কীভাবে হবে?

- (ক) এক-তৃতীয়াংশ
(খ) অর্ধেক
(গ) তিনগুণ
(ঘ) নয়গুণ



১২। যদি কোন কণুর বেগ অপেক্ষার বেগে পরিবর্তন থাকতে
পারতো, তাহলে আপেক্ষিক ভর অনুযায়ী কণুর
পরিবর্তন হয়তো—

- (ক) স্থির ভরের সমান
(খ) স্থির ভরের অর্ধেক
(গ) অসীম
(ঘ) শূন্য



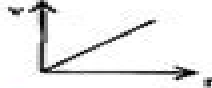
১৩। আপেক্ষিক অপেক্ষার কী বৃদ্ধি করলে কটোকটিক্রিয়ার
নিম্নতম ইলেকট্রনের গতিশক্তি বৃদ্ধি পাবে?

- (ক) তীব্রতা
(খ) কম্পাঙ্ক
(গ) ভরসংখ্যা
(ঘ) ভরসংখ্যা ও তীব্রতা

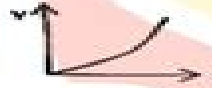


১৪। হাইড্রোজেন পরমাণুর বেগ কনাম ব্যাসার্ধের স্পেকট্র—

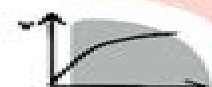
(ক)



(খ)



(ঘ)



১৫। নিচের কোনটি তেজস্ক্রিয় মৌল—

- (ক) ${}^{14}_6\text{C}$ (খ) ${}^9_4\text{Be}$
(গ) ${}^{40}_{20}\text{Ca}$ (ঘ) ${}^{39}_{19}\text{K}$



১৬। কোনো তেজস্ক্রিয় মৌলের অর্ধায়ু T হলে $6T$ সময় পর
অকৃত পরমাণু সংখ্যা হবে প্রারম্ভিক পরমাণু সংখ্যার—

- (ক) ছয় ভাগের একভাগ
(খ) ত্রিশভাগের একভাগ
(গ) কোনো পরমাণু অবশিষ্ট থাকবে না
(ঘ) ঐশ্বরিকত্বের একভাগ



১৭। জাংশন তরঙ্গের সাধারণত ব্যবহৃত হয়—

- (ক) লাইন হিসাবে
(খ) বিবর্তক হিসাবে
(গ) রেকটিফায়ার হিসাবে
(ঘ) স্পন্দক হিসাবে



১৮। পূর্ণ তরঙ্গ একত্বীকরণকে আউটপুটের কম্পাঙ্কে A, C
ইনপুটের—

- (ক) অর্ধেক (খ) সমান
(গ) দ্বিগুণ (ঘ) চারগুণ



১৯। সমন্বিত সার্কিটের ক্ষেত্রে—

- I. কম বিদ্যুতের প্রয়োজন হয়
II. বজান ও ঘাম কম
III. কোনো ক্ষেত্রেই নষ্ট হলে সমস্ত চিপটি অপেক্ষার হয় না

নিচের কোনটি সঠিক?

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



২০। $Y = A \odot B$ এটি কোন লজিক গেটের আউটপুট
কাশন—

- (ক) XOR
(খ) NAND
(গ) X-NOR
(ঘ) XOR



২১। শূন্য মাধ্যমে অভিক্ষেপে ভেদন ঘোষণার একক কোনটি?

- (ক) $C^2N^{-1}m^{-2}$
(খ) NA^{-2}
(গ) Nm^2C^{-2}
(ঘ) Am^{-2}



২২। কোন উচ্চতামিতিক পদার্থের উচ্চতামিতিক ধর্ম
তাপমাত্রায়—

- (ক) সমানুপাতিক
(খ) বর্গের সমানুপাতিক
(গ) ব্যস্তানুপাতিক
(ঘ) বর্গের ব্যস্তানুপাতিক



২৩। একটি পরিবাহী নিম্নতমের কিছু অবস্থা প্যাসেজ
প্রক্রিয়ার সংকুচিত করলে প্যাসেজ—

- (ক) অত্যন্ত্রীণ শক্তি বৃদ্ধি পায়
(খ) তাপমাত্রা হ্রাস পায়
(গ) নিস্টেম নিজে কাজ করে
(ঘ) তাপশক্তি স্থির থাকে



২৩) ব্যাখ্যা: সঠিক উত্তর নেই। সমস্ত প্রক্রিয়ার
অত্যন্ত্রীণ শক্তি ও তাপমাত্রা স্থির থাকে। নিস্টেম
তাপশক্তি গ্রহণ করে এক নিস্টেমের উপর কাজ হয়।
কেন $W = nRT \ln \frac{V_1}{V_2}$ ক্ষেত্রে $W < 0$ ।

২৪। কার্ণে ইঞ্জিনের চতুর্থ ধাপে তাপ—

- (ক) গ্রহণ করে
(খ) বর্জন করে
(গ) গ্রহণ ও বর্জন উভয়েই হতে পারে
(ঘ) গ্রহণ ও বর্জন কোনটিই হয় না



২৫। তাত্ত্বিকভাবে তাপমাত্রার তাপমাত্রা কত হলে একটি
তাপ ইঞ্জিনের কর্মদক্ষতা ১০০% হবে?

- (ক) শূন্য
(খ) অসীম
(গ) শূন্যের তাপমাত্রার সমান
(ঘ) যে কোনো স্পন্দক তাপমাত্রা



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Table of Contents Hsc Physics 2nd Paper Mcq Question 24

1. Understanding the eBook Hsc Physics 2nd Paper Mcq Question 24
 - The Rise of Digital Reading Hsc Physics 2nd Paper Mcq Question 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics 2nd Paper Mcq Question 24
 - 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 Mcq Question 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Physics 2nd Paper Mcq Question 24
 - Personalized Recommendations

- Hsc Physics 2nd Paper Mcq Question 24 User Reviews and Ratings
- Hsc Physics 2nd Paper Mcq Question 24 and Bestseller Lists
- 5. Accessing Hsc Physics 2nd Paper Mcq Question 24 Free and Paid eBooks
 - Hsc Physics 2nd Paper Mcq Question 24 Public Domain eBooks
 - Hsc Physics 2nd Paper Mcq Question 24 eBook Subscription Services
 - Hsc Physics 2nd Paper Mcq Question 24 Budget-Friendly Options
- 6. Navigating Hsc Physics 2nd Paper Mcq Question 24 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Physics 2nd Paper Mcq Question 24 Compatibility with Devices
 - Hsc Physics 2nd Paper Mcq Question 24 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Physics 2nd Paper Mcq Question 24
 - Highlighting and Note-Taking Hsc Physics 2nd Paper Mcq Question 24
 - Interactive Elements Hsc Physics 2nd Paper Mcq Question 24
- 8. Staying Engaged with Hsc Physics 2nd Paper Mcq Question 24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Physics 2nd Paper Mcq Question 24
- 9. Balancing eBooks and Physical Books Hsc Physics 2nd Paper Mcq Question 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Physics 2nd Paper Mcq Question 24
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Physics 2nd Paper Mcq Question 24
 - Setting Reading Goals Hsc Physics 2nd Paper Mcq Question 24
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Physics 2nd Paper Mcq Question 24
 - Fact-Checking eBook Content of Hsc Physics 2nd Paper Mcq Question 24

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements
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