#### ঢাকা বোর্ড-২০০৫

## পদার্থবিজ্ঞান (তত্ত্বীয়)-শ্বিতীয় পত্র সময়-৩ ঘণ্টা: পূৰ্ণমান-৭৫

[দুক্তব্য : ভান পার্থ্য সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক।]

PERSONAL PROPERTY.

- ১। (ক) হল ভোন্টেজ কিং বায়োট–সাভার্টের সূত্র প্রয়োগ করে একটি বৃত্তাকার কৃতপীর কেন্দ্রে ফ্লাক্স ঘনত্ব (B) এর মান নির্ণয় কর।
  - (খ) কোন স্থানে বিনতি নির্ণয়ের একটি পন্থতি বর্ণনা কর।

(গ) 90Ω রোধের একটি তারের মধ্য দিয়ে 5 প্রবাহ 20 মিনিট প্রবাহিত করলে কত ভুল তাপ উৎপল্ল হবে निर्भग्न कत्र।

- (ক) ফ্লাক্স ঘনত্বের সংজ্ঞা দাও। কার্শফের সূত্রের সাহাযো রোধ পরিমাপের হুইটস্টোনব্রীজ নীতি প্রতিষ্ঠা কর।
- একটি চার্জিত ধারকে সঞ্জিত শক্তির রাশিমালা প্রতিপাদন কর।
- (গ) একটি বৃত্তাকার কুণ্ডলীর পাক-সংখ্যা 60 এবং ব্যাসার্ধ 0.15m, কুণ্ডলীতে কত মাত্রার তড়িৎ প্রবাহ চালনা করলে কেন্দ্রে 350MT চৌম্বক ক্ষেত্রের সৃতি হবে?
- ২। (ক) দেখাও যে, সংযুক্ত থাকা অবস্থায় দৃটি পাতলা লেগেরে ক্ষমতা এদের পুথক পুথক ক্ষমতার যোগফণের अधान ।
  - (খ) আলোর বেগ নির্ণয়ের ফিজোর পশ্বতি বর্ণনা কর।

(গ) কোন অপবর্তন গ্রেটিং-এ প্রতি সেন্টিমিটারে 4200 রেখা রয়েছে। এর উপর সোভিয়াম আপোর সমান্তরাল রশিগুদ্ধে অভিদেশভাবে আপভিত হলে বর্ণালী রেখার দ্ভিীয় ক্রম 30° অপবর্তন কোণ উৎপন্ন করে। সোভিয়াম আলারে ভরজ্ঞাদৈর্ঘ্য নির্ণয় কর।

- (ক) হাইগেন্সের নীতি প্রয়োগ করে আলোর প্রতিফলনের সূত্র প্রমাণ কর।
- (খ) দৃক্তির প্রধান ত্র্টিগুলো কি কিং ত্র্টিগুলো কিভাবে দূর করা বায় চিত্রসহ বর্ণনা কর।
- (গা) পানি ও হারকের প্রতিসরাংক যথাক্রমে 1.33 এবং 2.4 হলে হারকে আলোর বেগ কত হবে নির্ণয় কর। (পানিতে আপোর বেগ  $2.28 \times 10^8 \text{ms}^{-1}$ )
  - ত। (ক) তেজক্তিয় কর সূত্রটি বিবৃত কর। অধারু ও কর ধ্বকের মধ্যে সম্পর্ক স্থাপন কর।

5+8-0

(খ) বোরের মডেল অনুসারে হাইড্রোজেন পরমাণুর শক্তির রাশিমালা বের কর।

(গ) 2 a.m.u. ভর সম্পূর্ণরূপে শক্তিতে রূপান্তরিত হলে Mev-এ তুল্যশক্তি নির্ণয় কর।

(क) দৈখ্য সংকোচন কি? দেখাও যে,  $L = Lo\sqrt{1 - v^2/c_2}$ , এধানে চিহ্নপূলো প্রচলিত অর্থ বহন করে।

3+8-0

- (খ) ফোটন কি? ব্যান্ড তত্ত্বের আলোকে পরিবাহী, অর্ধ-পরিবাহী ও অন্তরকের আচরণ ব্যাখ্যা কর। 3+0-6
- (গ) একটি রকেট কত বেগে চললে এর দৈর্ঘ্য সংকৃচিত হয়ে নিকল দৈর্ঘ্যের অর্ধেক হবে?

৪। দিক পরিবর্তী প্রবাহ ও ষকীয় আবেশ গুণাকের সজ্জা দাও। দেখাও যে, কোন পরিবর্তী প্রবাহের গড় মান ঐ 2+000 खवाद्यत नीर्वमादनत 0.637 धुन ।

# **Jsc Dhaka Board Out Question 2014**

**KJ Lindholm-Leary** 

Jsc Dhaka Board Out Question 2014:

#### Reviewing Jsc Dhaka Board Out Question 2014: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "Jsc Dhaka Board Out Question 2014," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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#### Table of Contents Jsc Dhaka Board Out Question 2014

- 1. Understanding the eBook Jsc Dhaka Board Out Question 2014
  - The Rise of Digital Reading Jsc Dhaka Board Out Question 2014
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Jsc Dhaka Board Out Question 2014
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Jsc Dhaka Board Out Question 2014
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Jsc Dhaka Board Out Question 2014
  - Personalized Recommendations
  - Jsc Dhaka Board Out Question 2014 User Reviews and Ratings

- Jsc Dhaka Board Out Question 2014 and Bestseller Lists
- 5. Accessing Jsc Dhaka Board Out Question 2014 Free and Paid eBooks
  - Jsc Dhaka Board Out Question 2014 Public Domain eBooks
  - Jsc Dhaka Board Out Question 2014 eBook Subscription Services
  - Jsc Dhaka Board Out Question 2014 Budget-Friendly Options
- 6. Navigating Jsc Dhaka Board Out Question 2014 eBook Formats
  - o ePub, PDF, MOBI, and More
  - o Jsc Dhaka Board Out Question 2014 Compatibility with Devices
  - Jsc Dhaka Board Out Question 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Jsc Dhaka Board Out Question 2014
  - Highlighting and Note-Taking Jsc Dhaka Board Out Question 2014
  - Interactive Elements Jsc Dhaka Board Out Question 2014
- 8. Staying Engaged with Jsc Dhaka Board Out Question 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Jsc Dhaka Board Out Question 2014
- 9. Balancing eBooks and Physical Books Jsc Dhaka Board Out Question 2014
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Jsc Dhaka Board Out Question 2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Jsc Dhaka Board Out Question 2014
  - Setting Reading Goals Jsc Dhaka Board Out Question 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jsc Dhaka Board Out Question 2014
  - o Fact-Checking eBook Content of Jsc Dhaka Board Out Question 2014
  - 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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