#### 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 ।

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