

- ১। (ক) হল ভোল্টেজ কি? বায়োট-সাবাটের সূত্র প্রয়োগ করে একটি বৃত্তাকার কুণ্ডলীর কেন্দ্রে ফ্লাক্স ঘনত্ব (B) এর মান নির্ণয় কর। ১+৫=৬
- (খ) কোন স্থানে বিনতি নির্ণয়ের একটি পদ্ধতি বর্ণনা কর। ৫
- (গ) ১০Ω রোধের একটি তারের মধ্য দিয়ে ৫A প্রবাহ ২০ মিনিট প্রবাহিত করলে কত জুল তাপ উৎপন্ন হবে নির্ণয় কর। ৪

অথবা,

- (ক) ফ্লাক্স ঘনত্বের সংজ্ঞা দাও। কার্শফের সূত্রের সাহায্যে রোধ পরিমাপের দুইটাস্টোনট্রীজ নীতি প্রতিষ্ঠা কর।
- (খ) একটি চার্জিত ধারকে সম্বন্ধিত শক্তির রাশিমালা প্রতিপাদন কর।
- (গ) একটি বৃত্তাকার কুণ্ডলীর পাক-সংখ্যা ৬০ এবং ব্যাসার্ধ ০.১৫m, কুণ্ডলীতে কত মাত্রার তড়িৎ প্রবাহ চালনা করলে কেন্দ্রে ৩৫০MT চৌম্বক ক্ষেত্রের সৃষ্টি হবে?

- ২। (ক) দেখাও যে, সংযুক্ত থাকা অবস্থায় দুটি পাতলা লেন্সের ক্ষমতা এদের পৃথক পৃথক ক্ষমতার যোগফলের সমান। ৪

(খ) আলোর বেগ নির্ণয়ের ফিজোর পদ্ধতি বর্ণনা কর। ৭

- (গ) কোন অপবর্তন গ্রেটিং-এ প্রতি সেন্টিমিটারে ৪২০০ রেখা রয়েছে। এর উপর সোডিয়াম আলোর সমান্তরাল রশ্মিগুচ্ছ অভিলম্বভাবে আপতিত হলে বর্ণালী রেখার দ্বিতীয় ক্রম ৩০° অপবর্তন কোণ উৎপন্ন করে। সোডিয়াম আলোর তরঙ্গদৈর্ঘ্য নির্ণয় কর। ৪

অথবা,

- (ক) হাইগেন্সের নীতি প্রয়োগ করে আলোর প্রতিফলনের সূত্র প্রমাণ কর।
- (খ) দৃষ্টির প্রধান ত্রুটিগুলো কি কি? ত্রুটিগুলো কিসে দূর করা যায় চিত্রসহ বর্ণনা কর।
- (গ) পানি ও ইীরকের প্রতিসরাঙ্ক যথাক্রমে ১.৩৩ এবং ২.৪ হলে ইীরকে আলোর বেগ কত হবে নির্ণয় কর।
- (পানিতে আলোর বেগ $2.28 \times 10^8 \text{ms}^{-1}$)

- ৩। (ক) তেজস্ক্রিয় ক্ষয় সূত্রটি বিবৃত কর। অর্ধায়ু ও ক্ষয় ধ্রুবকের মধ্যে সম্পর্ক স্থাপন কর। ১+৪=৫

(খ) বোরের মডেল অনুসারে হাইড্রোজেন পরমাণুর শক্তির রাশিমালা বের কর। ৬(গ) ২ g.m.u. ভর সম্পূর্ণরূপে শক্তিতে রূপান্তরিত হলে Mev-এ তুল্যশক্তি নির্ণয় কর। ৪

অথবা,

- (ক) দৈর্ঘ্য সংকোচন কি? দেখাও যে, $L = L_0 \sqrt{1 - v^2/c^2}$, এখানে চিহ্নগুলো প্রচলিত অর্থ বহন করে। ১+৪=৫

(খ) ফোটন কি? ব্যাভ তত্ত্বের আলোকে পরিবাহী, অর্ধ-পরিবাহী ও অন্তরকের আচরণ ব্যাখ্যা কর। ১+৫=৬(গ) একটি রকেট কত বেগে চললে এর দৈর্ঘ্য সংকুচিত হয়ে নিচল দৈর্ঘ্যের অর্ধেক হবে? ৪

- ৪। দিক পরিবর্তী প্রবাহ ও স্বকীয় আবেশ গুণাঙ্কের সংজ্ঞা দাও। দেখাও যে, কোন পরিবর্তী প্রবাহের গড় মান ঐ প্রবাহের শীর্ষমানের ০.৬৩৭ গুণ। ২+৩=৫

Jsc Board Question2014

Hussin A.Rothana



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