

সময় : ২ ঘণ্টা

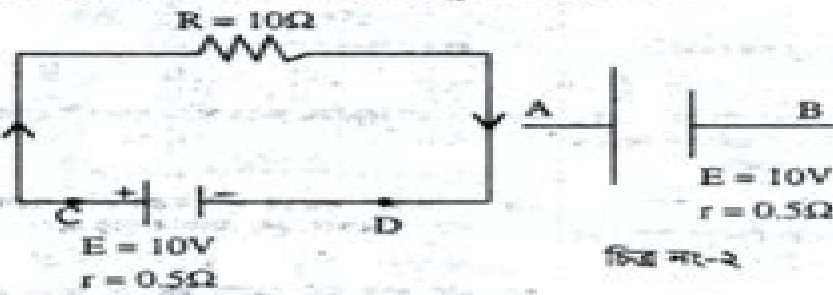
[৬টি প্রশ্ন থেকে মোট ৪টি প্রশ্নের উত্তর দিতে হবে ।

পূর্ণমান : ৪০

১। নিচের উদ্দীপকটি পড় এবং প্রশ্নগুলোর উত্তর দাও :-
ABC একটি সমবাহু ত্রিভুজ যার প্রতি বাহুর দৈর্ঘ্য ৩ মিটার। প্রথমে A বিন্দুতে ২৫০ কুলম্ব চার্জ রাখা হলো। পরবর্তীতে B বিন্দুতে -২৫০ কুলম্ব চার্জ রাখা হলো।

- ক. কার্ণের চক্র কী? ১
খ. স্থলতাপীয় সংকেতনে তাপমাত্রা বৃদ্ধি পায় কেন? ২
গ. প্রথম ক্ষেত্রে C বিন্দুতে বিভব কত হবে? ৩
ঘ. B বিন্দুতে চার্জ রাখার পূর্বে ও পরে C বিন্দুতে তড়িৎ প্রাবল্যের কিরূপ পরিবর্তন হবে তার গাণিতিক প্রমাণ দাও। ৪

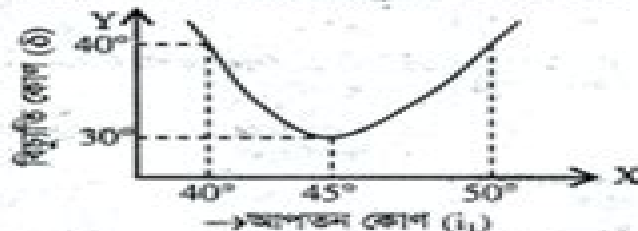
২। নিচের চিত্র লক্ষ্য কর এবং প্রশ্নগুলোর উত্তর দাও :-



চিত্র নং-২

- ক. তড়িৎ মাধ্যমাক্ক কি? ১
খ. তড়িৎ প্রবাহের ফলে পরিবাহীতে তাপ উৎপন্ন হয় কেন? ২
গ. কার্ণফের সূত্রের সাহায্যে ১নং বর্তনীটিতে মূল প্রবাহ নির্ণয় কর। ৩
ঘ. CD বিন্দুতে AB কোষটিকে সমান্তরালভাবে সংযুক্ত করলে পূর্বাপেক্ষা বহিষ্কৃত রোধ R-এ উৎপাদিত তাপশক্তির হার বাড়বে না কমবে? গাণিতিকভাবে বিশ্লেষণ কর। ৪

৩। নিচের চিত্রটি লক্ষ্য কর এবং প্রশ্নগুলোর উত্তর দাও :-



—> আপতন কোণ (i)

উপরের চিত্রে একটি সমবাহু ত্রিভুজের তিন তিন আপতন কোণের জন্য বিচ্ছিন্ন কোণ বনাম আপতন কোণ লেখচিত্র দেখানো হয়েছে।

- ক. সমবর্তন কাকে বলে? ১
খ. লেন্সের চারিপার্শ্বস্থ মাধ্যম পরিবর্তন করলে উহার ফোকাস দূরত্ব পরিবর্তন হয় কেন? ২
গ. উল্লিখিত প্রিজমটির উপাদানের প্রতিসরাংক কত? ৩
ঘ. উদ্দীপকের চিত্রে প্রদর্শিত তিনটি আপতন কোণের জন্য য-য নির্ণত কোণের মান সমান হবে কি? গাণিতিক ব্যাখ্যা দাও। ৪

৪। উদ্দীপকটি পড় এবং নিচের প্রশ্নগুলোর উত্তর দাও :-
একটি ধাতুর উপর 2500Å এবং 3500Å তরঙ্গ দৈর্ঘ্যবিশিষ্ট দুটি তড়িৎচুম্বকীয় তরঙ্গ আলোদাতাবে ফেলা হলো। ফলে দুটি ক্ষেত্রেই ধাতবপৃষ্ঠ হতে ইলেকট্রন নির্গত হলো। ধাতুটির সূচন কম্পাঙ্ক $5.5 \times 10^{14}\text{Hz}$ ।

- ক. আলোক তড়িৎ ক্রিয়া কাকে বলে? ১
খ. কোনো গতিশীল কণার বেগের সাথে তরঙ্গ দৈর্ঘ্যের সম্পর্ক কিরূপ? ২
গ. ধাতুটির কার্য অপেক্ষক নির্ণয় কর। ৩
ঘ. উদ্দীপকে আপাতিত আলোর তরঙ্গ দৈর্ঘ্যের জন্য উভয়ক্ষেত্রে নিষ্টি বিভবের তুলনামূলক গাণিতিক বিশ্লেষণ কর। ৪

৫। উদ্দীপকটি পড় এবং নিচের প্রশ্নসমূহের উত্তর দাও :-
২০০০ সালে কোনো স্থানে 20gm পরিমাণ এর একটি তেজস্ক্রিয় পদার্থ ছিল। যার গড় আয়ু ১০.৪২ বছর। ২০১৫ সালে দেখা গেল ঐ পদার্থের মাত্র 5gm অবশিষ্ট আছে।

- ক. ক্ষয় ধ্রুবক কাকে বলে? ১
খ. প্রাক্কর ধ্রুবক λ এর মাত্রা সনিকরণ কি হবে? ২
গ. তেজস্ক্রিয় পদার্থটির অর্ধায়ু কত? ৩
ঘ. উদ্দীপকটির তথ্য অনুযায়ী ২০৩০ সালে পদার্থটির কিছু পরিমাণ আর অবশিষ্ট থাকবে কি? গাণিতিক বিশ্লেষণের মাধ্যমে ব্যাখ্যা কর। ৪

৬। নিচের উদ্দীপকটি পড় ও প্রশ্নসমূহের উত্তর দাও :-
A ও B যথাক্রমে ত্রিসোণী এবং পঞ্চসোণী মৌল এদের দ্বারা সিলিকনকে ডোপিং করা যায়।

- ক. বিপ ব্যাং কী? ১
খ. তাপমাত্রার পরিবর্তন সস্পেক্ষে অর্ধপরিবাহী ও পরিবাহীর রোধের মধ্যে তিনুতা কিরূপ দেখা যায়? ২
গ. A মৌলটিকে সিলিকনের সাথে ডোপিং করা হলে সিলিকনের বৈশিষ্ট্যের কিরূপ পরিবর্তন ঘটে চিত্রসহ বর্ণনা কর। ৩
ঘ. যদি সিলিকন খাতের কিছু অংশ A মৌল এবং একই সাথে বাকী অংশে B মৌল ডোপিং করা হয় তবে প্রাপ্ত যন্ত্রাংশ কি কাজে ব্যবহার করা যেতে পারে? তা প্রয়োজনীয় চিত্রের সাহায্যে বর্ণনা কর। ৪

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Marcel A. Müller



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