

সময় : ২ ঘণ্টা

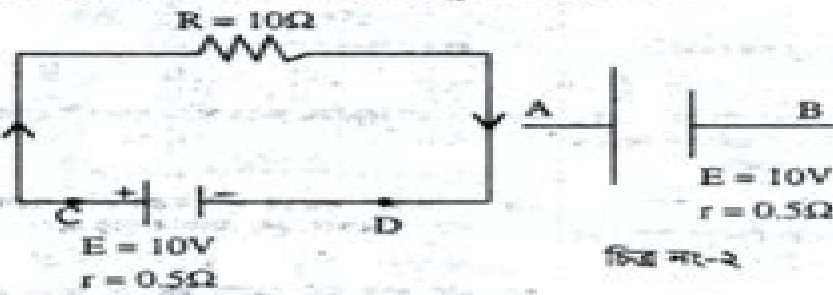
[৬টি প্রশ্ন থেকে মোট ৪টি প্রশ্নের উত্তর দিতে হবে ।

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।

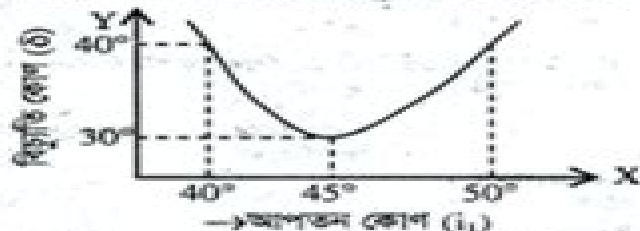
- ক. কার্ণের চক্র কী? ১
খ. স্থলতাপীয় সংকেতনে তাপমাত্রা বৃদ্ধি পায় কেন? ২
গ. প্রথম ক্ষেত্রে C বিন্দুতে বিভব কত হবে? ৩
ঘ. B বিন্দুতে চার্জ রাখার পূর্বে ও পরে C বিন্দুতে তড়িৎ প্রাবল্যের কিরূপ পরিবর্তন হবে তার গাণিতিক প্রমাণ দাও। ৪

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



- 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 :-



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 প্রতিসরাঙ্ক 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 নিষ্কৃতি 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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**Ajith Abraham,Paramartha
Dutta,Jyotsna Kumar Mandal,Abhishek
Bhattacharya,Soumi Dutta**

H S C Suggestion 2015 Sylhet Board:

Emerging Technologies in Data Mining and Information Security Ajith Abraham, Paramartha Dutta, Jyotsna Kumar Mandal, Abhishek Bhattacharya, Soumi Dutta, 2018-09-01 The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2018 held at the University of Engineering Management Kolkata India on February 23-25, 2018. It comprises high quality research by academics and industrial experts in the field of computing and communication including full length papers, research in progress papers, case studies related to all the areas of data mining, machine learning, IoT and information security.

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