

বিষয় : পদার্থবিজ্ঞান ২য় পত্র (সৃজনশীল)

সময় : ২ ঘণ্টা ৩০ মিনিট

পূর্ণমান—৫০

[ডান পার্শ্বস্থ সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। যেকোনো ৫টি প্রশ্নের উত্তর দাও।]

১. 3 cm এবং 8 cm ব্যাসার্ধের দুটি গোলাকের মধ্যে যথাক্রমে $4 \times 10^{-9} \text{C}$ এবং $16 \times 10^{-19} \text{C}$ আধান স্থাপন করা হলো। এই দুটি গোলাকে যদি একটি পরিবাহী তার দ্বারা সংযুক্ত করা হয়। যেখানে মাধ্যমে ভেদন্যতা $8.85 \times 10^{-12} \text{C}^2 \text{N}^{-1} \text{m}^{-2}$ ।
- তাপ মিত্তিক পদার্থ কি?
 - ধারকের মধ্য দিয়ে সমপ্রবাহ চলতে পারে না কেন? ব্যাখ্যা কর।
 - উপরের উদ্দীপকের গোলক দুটিকে সংযুক্ত করার পর সাধারণ বিভব নির্ণয় কর।
 - উপরের উদ্দীপকের গোলায় ধারকত্ব পরিবাহী তার দ্বারা সংযুক্ত করার পর দেখাও যে একটি থেকে অন্যটিতে আধান প্রবাহিত হবে এবং প্রবাহিত আধানের পরিমাণ নির্ণয় কর।



$$\begin{aligned} R_1 &= 100 \Omega \\ R_2 &= 50 \Omega \\ R_3 &= 50 \Omega \\ R_4 &= 75 \Omega \end{aligned}$$

- পারমাণবিক চুম্বকত্ব কি?
 - তাত্ত্বিক চৌম্বক বিকিরণে আলোর দ্বৈতরূপ দি ব্রগলী বস্তুর ধারণার সাহায্যে সঙ্গীকরণ সহ ব্যাখ্যা কর।
 - উপরের বর্তনীতে অ্যামিটারের পাঠ নির্ণয় কর।
 - উপরের উদ্দীপকের বর্তনীর R_4 রোধের মধ্য দিয়ে প্রবাহিত বিদ্যুতের মান নির্ণয় কর এবং উক্ত বর্তনীতে বিভবের নিত্যতা সূত্র মেনে চলে দেখাও।
৩. তোমার কলেজের পাঠ দিয়ে একটি বিদ্যুৎ সরবরাহ লাইন অতিক্রম করেছে যাহা নিচের চিত্রে দেখানো হলো—



- তরুণটি কি?
- দেখাও কোন গসীয়ান গোলাকার তলের জন্য চৌম্বক ফ্লাক্স $\Phi_B = \frac{q}{\epsilon_0}$ ।
- উপরের উদ্দীপকের চিত্রে থেকে তার দুটির ঠিক মধ্যখানে চৌম্বক ক্ষেত্র নির্ণয় কর।
- যদি উদ্দীপকের দুটি তারের ঠিক মধ্যবিন্দু বা রেখা বরাবর একটি ইলেকট্রন গতিশীল হয় তখন ইলেকট্রনের উপর ত্রিাশীল বল নির্ণয় কর এবং তারের

বিদ্যুৎ প্রবাহ যদি একই দিকে পরিবর্তন করা হয় তখন ইলেকট্রনের উপর কি পরিমাণ বল ক্রিয়া করবে নির্ণয় করে ব্যাখ্যা দাও।

৪. একজন ছাত্র কুটিপূর্ণ চোখে পত্রিকা এবং দূরের বিল বোর্ড পড়তে পারে না। ঐ ছাত্রের চোখের নিকট বিন্দু ও দূর বিন্দু যথাক্রমে 0.4 এবং 6m। স্পষ্ট দর্শনের নিকটতম দূরত্ব 0.25 m।
- ফোটা কি?
 - অর্ধ পরিবাহী ডায়োড সুইচের মত কাজ করে ব্যাখ্যা কর।
 - উপরের উদ্দীপকের জন্য ছাত্র কত ক্ষমতার লেন্স ব্যবহার করলে পত্রিকা পড়তে পারবে।
 - উপরের উদ্দীপকের ঘটনায় ছাত্র কত ক্ষমতায় লেন্স ব্যবহার করলে বিল বোর্ড পড়তে পারবে এবং এর প্রতিকার কি? ব্যাখ্যা কর। লেন্সের প্রকৃতি সহ।
৫. ইয়ং এর দ্বি-চির পরীক্ষায় 1m দূরে কোন পর্দার উপর ব্যতিচার আলরঙলো সৃষ্টি হলো। দুটি হিট্রের মধ্যবর্তী দূরত্ব 0.4mm। এই পরীক্ষায় $5000 \text{\AA}$ আলোর তরঙ্গ দৈর্ঘ্য ব্যবহার করা হলো।
- কার্যপেক্ষক কি?
 - দেখাও যে চৌম্বক ফ্লাক্স একটি স্কেলার গুণন।
 - উপরের উদ্দীপকের পরীক্ষায় পাশাপাশি দুটি ডোবার মধ্যে পার্থক্য নির্ণয় কর।
 - উপরের উদ্দীপক থেকে পাশাপাশি দুটি উজ্জল এবং অন্ধকার ডোরা কেন্দ্র হতে দূরত্ব নির্ণয় কর।
৬. চিত্রে কোন ধাতব পাত থেকে নির্গত ইলেকট্রনের গতিশক্তি ও আপতিত আলোর কম্পাংক-এর লেখচিত্র দেখানো হলো—



- ডোপিং কি?
 - P-n জংশন রেকটিফায়ার হিসেবে কাজ করে ব্যাখ্যা কর।
 - উপরের উদ্দীপক-এর আলোকে ধাতব পাতের কার্যপেক্ষক নির্ণয় কর।
 - উপরের উদ্দীপকের ধাতব পাতের উপর $2400 \text{\AA}$ তরঙ্গ দৈর্ঘ্যের আলো আপতিত হয় তাহলে ধাতব পাত থেকে ইলেকট্রন নির্গত হবে কি? যদি ইলেকট্রন নির্গত হয় তাহলে ইলেকট্রনের বেগ নির্ণয় কর।
৭. 600 পাকের একটি কুণ্ডলীর মধ্য দিয়ে 3A তড়িৎ প্রবাহ চালনা করলে $1.5 \times 10^{-4} \text{wb}$ চৌম্বক ফ্লাক্স উৎপন্ন হয়। তড়িৎ প্রবাহের মান যদি 0.06s শূন্যে নিয়ে আসা হয়।
- কাল দীর্ঘায়ন কি?
 - একটি কাঠের লাঠিকে যদি আংশিকভাবে পানিতে নিমজ্জিত করা হয় তাহলে উপর থেকে দেখলে বাকী মনে হয় কেন? ব্যাখ্যা কর।

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O García

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