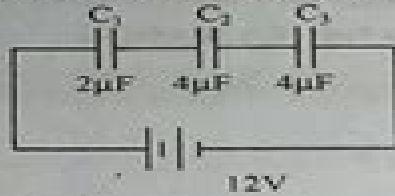
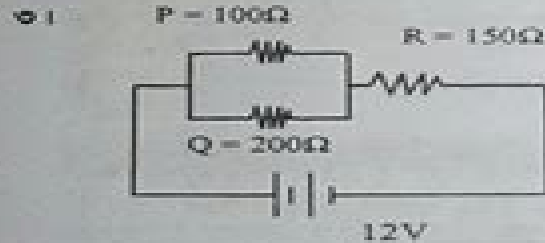


- ১। শহীন একটি ইঞ্জিন তৈরি করে দাবী করল তার ইঞ্জিনটি কার্নোর প্রত্যাশামী ইঞ্জিন। এটি উৎস হতে পৃথীত তাপের এক চতুর্থাংশে কাজে পরিণত করে বাকী 300J তাপ গ্রাহকে বর্জন করে। শহীন তার ইঞ্জিনের তাপ উৎস ও গ্রাহকের তাপমাত্রা পেয়েছিল যথাক্রমে 350K ও 310 K।
- (ক) তাপ পরিবিন্যাস ২য় সূত্র লিখ।
- (খ) তাপের পরিবহন অপ্রত্যাশামী প্রক্রিয়া কেন? ব্যাখ্যা কর।
- (গ) তাপ উৎসের তাপ নির্ণয় কর।
- (ঘ) বাস্তবে সেবা শেল তার দাবী সঠিক নয়। ইঞ্জিনটিকে প্রত্যাশামী করতে কী ধরনের পরিবর্তন করতে হবে গাণিতিক বিশ্লেষণের মাধ্যমে ব্যাখ্যা কর।

২। নিচে একটি ভর্তনী বর্তনী দেখানো হল—

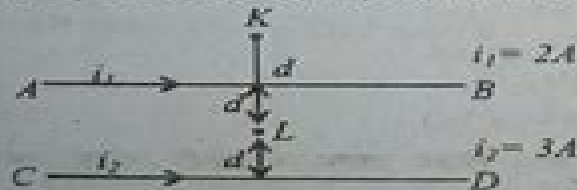


- (ক) ধারক কী?
- (খ) 3.67 ফ্যারাড বলতে কী বুঝায়?
- (গ) সমবায়েটিতে সঞ্চিত শক্তির পরিমাণ নির্ণয় কর।
- (ঘ) সর্বোচ্চ সঞ্চিত শক্তি পেতে উদ্দীপকের সমবায়েটি কী রকমের পরিবর্তন প্রয়োজন— গাণিতিক বিশ্লেষণের মাধ্যমে ব্যাখ্যা কর।



- (ক) চার্জের কোয়ান্টায়ন কী?
- (খ) হারানো ভোল্ট বলতে কী বুঝায়?
- (গ) বর্তনীর A বিন্দুতে প্রবাহমাত্রা নির্ণয় কর।
- (ঘ) কোন রোধকটি অপসারণ করলে বর্তনীর মোট প্রবাহ সর্বোচ্চ হবে— গাণিতিক বিশ্লেষণ সহকারে দেখাও।

৪। চিত্রে i_1 প্রবাহের জন্য K বিন্দুতে চৌম্বক ক্ষেত্রের মান $8\text{N A}^{-1}\text{m}^{-1}$



- (ক) Lorentz বল কি?
- (খ) অনুসর্ঘ্য তরঙ্গের সমবর্তন হয় না কেন? ব্যাখ্যা কর।
- (গ) AB পরিবাহী তার হতে K বিন্দুর দূরত্ব d নির্ণয় কর।
- (ঘ) i_1 প্রবাহের দিক বিপরীত করলে L বিন্দুতে লব্ধি চৌম্বক ক্ষেত্রের মান ও দিক কিরূপ হবে বিশ্লেষণ কর।

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