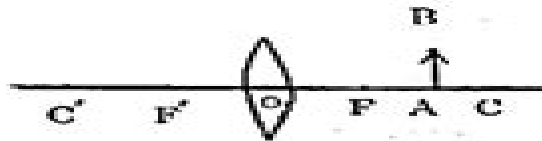


১৫। 1500kg ভরের একটি গাড়ি 72kmh^{-1} বেগে গতিশীল হলে এর ভরবেগ কত হবে?

- (ক) $1.08 \times 10^5 \text{kgms}^{-1}$
☒ (খ) $3 \times 10^5 \text{kgms}^{-1}$
 (গ) 300kgms^{-1}
 (ঘ) 75kgms^{-1}

নিচের উদীপকের আলোকে ১৬ ও ১৭ নং প্রশ্নের উত্তর দাও:



চিত্রে $OC = 12\text{cm}$ এবং $AF = 4\text{cm}$

১৬। লেন্সটি হতে কত দূরে AB এর প্রতিবিম্ব গঠিত হবে?

- (ক) 2.4cm
 (খ) 3.75cm
 (গ) 12cm
☒ (ঘ) 15cm

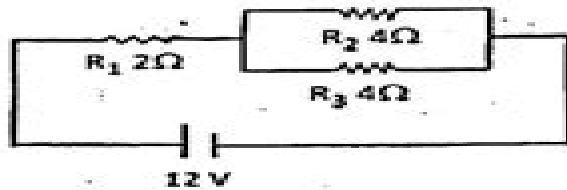
১৭। লম্বাবলম্ব AB কে লেন্সের নিকট 7cm সরালে—

- I. অবাস্তব প্রতিবিম্ব গঠিত হবে
 II. প্রতিবিম্ব প্রধান ফোকাসে অবস্থিত হবে
 III. উৎপন্ন বিম্বের জন্য বিবর্ধন হবে 2

কোনটি সঠিক?

- (ক) I ও II
☒ (খ) I ও III
 (গ) II ও III
 (ঘ) I, II ও III

নিচের উদীপকের আলোকে ১৮ ও ১৯ নং প্রশ্নের উত্তর দাও:



১৮। বর্তকের মূল্য রোধ কত?

- (ক) 1Ω
☒ (খ) 2.5Ω
 (গ) 4Ω
 (ঘ) 10Ω

১৯। R_3 রোধটিকে অপসারণ করলে—

- I. বর্তনের মোট প্রবাহমাত্রা হ্রাস পাবে
 II. R_1 ও R_2 এর ক্ষমতা একই হবে
 III. R_1 ও R_2 এর মধ্য দিয়ে একই বিদ্যুৎ প্রবাহিত হবে

কোনটি সঠিক?

- (ক) I ও II
 (খ) II ও III
☒ (গ) I ও III
 (ঘ) I, II ও III

২০। নিচের কোন মাধ্যমে শব্দ দ্রুত চলে?

- (ক) পানি
☒ (খ) পাতল
 (গ) লোহা
 (ঘ) হাইড্রোজেন

২১। উত্তল আয়নার সর্বনা—

- I. অবাস্তব প্রতিবিম্ব গঠিত হয়
 II. উল্টা প্রতিবিম্ব গঠিত হয়
 III. বিবর্ধন 1 অপেক্ষা ছোট হয়

কোনটি সঠিক?

- (ক) I ও II
 (খ) II ও III
☒ (গ) I ও III
 (ঘ) I, II ও III

২২। টেপার আপ ট্রান্সফর্মারের ক্ষেত্রে—

- I. $V_s > V_p$
 II. $n_s > n_p$
 III. $I_s > I_p$

কোনটি সঠিক?

- (ক) I
☒ (খ) II
 (গ) III
 (ঘ) I, II ও III

নিচের উদীপকটি লড়ে ২৩ ও ২৪ নং প্রশ্নের উত্তর দাও:

পানিতে অপ্রবণীয় দুটি কঠিন পদার্থ A ও B। A এর আয়তন 1500cc ও ভর 0.9kg এবং B এর ঘনত্ব A এর ঘনত্বের দ্বিগুণ। (পানির ঘনত্ব 1gm/cc এবং $g = 9.8\text{ms}^{-2}$)

২৩। A বস্তুটিকে পানির 0.5m গভীরে নিলে কত চাপ অনুভব করবে?

- ☒ (ক) 4900pa
 (খ) 2940pa
 (গ) 2.94pa
 (ঘ) $2.94 \times 10^{-3}\text{pa}$

২৪। A ও B দুটি বস্তুকে পানিতে ছেড়ে দিলে—

- (ক) A ডুবে যাবে কিন্তু B ভাসবে
 (খ) A ও B উভয়ই ডুবে যাবে
 (গ) A ও B উভয়ই ভাসবে
☒ (ঘ) A ভাসবে কিন্তু B ডুবে যাবে

২৫। কোন বস্তুর কারণে তেজস্ক্রিয় নিউক্লিয়াস থেকে β রশ্মি বা ইলেকট্রন বের হয়?

- (ক) চৌম্বক বল
☒ (খ) দুর্বল নিউক্লিয়ার বল
 (গ) বিদ্যুৎ বল
 (ঘ) সবল নিউক্লিয়ার বল

Answer Of Physics Mcq April 2014

Xavier Marsault



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