

বহুনির্বাচনি অধীক্ষা

সমন্বিতবিজ্ঞানে

দ্বিতীয় পত্র

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বরিশাল বোর্ড

বিষয় কোড :

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সেট :

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[বিশেষ প্রকৃতি: সমন্বিতবিজ্ঞান বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রত্যেক প্রশ্নের সঠিক উত্তরের বিপরীতে সঠিক বর্ণসমূহের দ্বারা সঠিক/সর্বোৎকৃষ্ট উত্তরের চূড়ান্ত বল পড়েই তালম্বী ভাবে সম্পূর্ণ ভরতি কর। সকল প্রশ্নের উত্তর দিতে হবে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১. তাপগতবে প্রতিসারকে কেত্রে কোনটি সঠিক?



$d_s = 0$



$dV = 0$



$dQ \neq 0$



$dW = dQ$

২. তাপগতবেইটি কোলের কোন তাপমাত্রা সেলসিয়াসে কোলের পার্টের ঘিওণ হবে?



12.31°



22.15°



160.00°



288.00°

৩. পরিবাহীতবে একক বিভবের কোনটি?



$\Delta V = I$



$V \Delta = I$



ΔV



$\Delta = IV = I$

৪. এনট্রপি সম্পর্কে বলা যায়—

I. প্রথম মনে নির্ণয় করা যায় না

II. পরিবর্তন করা যায় হতে পারে

III. পরিবর্তন করা যায় হতে পারে

নিচের কোনটি সঠিক?



$I \text{ ও } II$



$I \text{ ও } III$



$II \text{ ও } III$



$I, II \text{ ও } III$

৫. একটি পদার্থের আপেক্ষিক বেগ $1.8 \times 10^{-8} \Omega \text{m}$ ।3mm ব্যাসের কত সৈরীর তারের বেগ 12Ω হবে?

$2.12 \times 10^{-4} \text{m}$



$4.71 \times 10^3 \text{m}$



$1.88 \times 10^4 \text{m}$



$1.88 \times 10^{10} \text{m}$

৬. অক্ষতবে ছবি তুলতে ক্যামেরায় ব্যবহার হয়—

(ক) অতি বেগনি রশ্মি



অপোহিত রশ্মি



মাইক্রোওয়েভ



গাঢ় রশ্মি

৭. আপেক্ষিক বস্তুতে কম্পন ছিন্ন হলে তাতে তাড়িতের প্রবাহ যখন কখন আলোর তীব্রতা অনুসারে কোন লেন্থি সঠিক?



$I \propto \sqrt{I}$



$I \propto I$



$I \propto I^2$



$I \propto I^3$



$I \propto I^4$



$I \propto I^5$



$I \propto I^6$



$I \propto I^7$



$I \propto I^8$



$I \propto I^9$



$I \propto I^{10}$



$I \propto I^{11}$

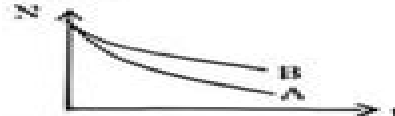


$I \propto I^{12}$



$I \propto I^{13}$

৮. A ও B দুটি বৈদ্যুতিক পদার্থ সংযোগ করায় সময় লেন্থি নির্ভর।



I. A বৈদ্যুতিক তড়িৎপ্রবাহ বেশি
II. B বৈদ্যুতিক তড়িৎপ্রবাহ বেশি
III. B বৈদ্যুতিক ক্ষয় হতে অধিক সময় লাগে।

নিচের কোনটি সঠিক?



$I \text{ ও } II$



$I \text{ ও } III$



$II \text{ ও } III$



$I, II \text{ ও } III$

৯. একটি বৈদ্যুতিক বস্তু দুই প্রান্তের বিভব পার্থক্য 2V হলে শেখ বস্তুর ক্ষমতা কত শতাংশ হতে পারে?



4%



2%



1%



0.5%

১০. ইচ্ছা এর বি-চিহ্ন পরীক্ষায় চিহ্নবস্তুর মধ্যবর্তী দূরত্ব তিনগুণ করলে ভোয়া ব্যবধান—

(ক) ন্যূনতম হবে

(খ) তিনগুণ হবে



এক তৃতীয়াংশ হবে



এক দ্বিগুণ হবে

১১. সমান্তরাল পাত ধরতের পাত দুটির মধ্যবর্তী দূরত্ব (d) বৃদ্ধির সাথে নিচের কোন লেন্থি সঠিক?



$V \propto \frac{1}{d}$



$V \propto d$



$V \propto d^2$



$V \propto d^3$



$V \propto d^4$



$V \propto d^5$



$V \propto d^6$



$V \propto d^7$



$V \propto d^8$



$V \propto d^9$



$V \propto d^{10}$



$V \propto d^{11}$



$V \propto d^{12}$



$V \propto d^{13}$



$V \propto d^{14}$



$V \propto d^{15}$



$V \propto d^{16}$



$V \propto d^{17}$

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J Elliott



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