

বহুনির্বাচনি অধীক্ষা

সমন্বিতবিজ্ঞানে

দ্বিতীয় পত্র

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

## বরিশাল বোর্ড

বিষয় কোড : 

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[বিশেষ প্রকৃতি: সমন্বিতবিজ্ঞান বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রাপ্তের ত্রুটি নথিতে প্রাপ্ত বহুনির্বাচনি প্রশ্নসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের সূত্রটি বসে পাঠ্যক্রম অনুযায়ী সঠিকভাবে উত্তর দেওয়া হবে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেওয়া যাবে না।

১. তাপমাত্রায় প্রতিসরাঙ্ক কেন্দ্রে কোনটি সঠিক?



$d_s = 0$



$dV = 0$

$dQ \neq 0$



$dW = dQ$

২. তাপমাত্রায় কেন্দ্রে কোন তাপমাত্রায় সোলেনয়েড কেন্দ্রে পার্শ্বীয় বিভব হয়?



$12.31^\circ$



$22.15^\circ$

$160.00^\circ$



$288.00^\circ$

৩. পরিবাহীত্বের একক নির্ণয় কোনটি?



$\Lambda V^{-1}$



$V \Lambda^{-1}$

$\Lambda V$



$\Lambda^{-1} V^{-1}$

৪. এনট্রপি সম্পর্কে কী বলা যায়—

I. প্রথম মানে নির্ণয় করা যায় না

II. পরিবর্তন করা যায় হতে পারে

III. পরিবর্তন করা যায় হতে পারে

নিচের কোনটি সঠিক?



$I \text{ ও } II$



$I, II \text{ ও } III$

$II \text{ ও } III$

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

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



$4.71 \times 10^3 m$

$1.88 \times 10^4 m$



$1.88 \times 10^{10} m$

৬. অক্সিজেন ছবি তুলতে ক্যামেরায় ব্যবহার হয়—

(ক) অতি বেগনি রশ্মি

(খ) অলংকারিত রশ্মি

(গ) হাইড্রোজেন

(ঘ) লাল রশ্মি

৭. আপেক্ষিক বলের সম্পর্ক স্থির হলে তাড়িত তড়িৎের প্রবাহ ঘনত্ব কনাম আলোর তীব্রতা অনুযায়ী কোন লেন্থি সঠিক?



$I \propto I$



$I \propto I^2$

$I \propto I^3$



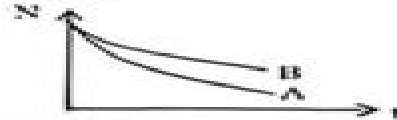
$I \propto I^4$

$I \propto I^5$



$I \propto I^6$

৮. A ও B দুটি বৈদ্যুতিক পদার্থ সংযোগ করার সময় লেন্থি নির্ণয়:



I. A বৈদ্যুতিক তড়িৎপ্রবাহ বেশি

II. B বৈদ্যুতিক তড়িৎপ্রবাহ বেশি

III. B বৈদ্যুতিক তড়িৎপ্রবাহ বেশি 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 বর্তন দুই প্রান্তের বিভব পার্থক্য ২০০ ভোল্ট হলে বর্তনীয় প্রবাহের ক্ষমতা কত শতাংশ হতে পারে?



$4\%$



$2\%$



$1\%$



$0.5\%$

১০. ইচ্ছা এর বি-চিহ্ন পরীক্ষায় চিহ্নবাহকের মধ্যবর্তী দূরত্ব তিনগুণ করলে ভোল্টেজ ব্যবধান—

(ক) ন্যূনতম হবে

(খ) তিনগুণ হবে

☒ এক তৃতীয়াংশ হবে

(ঘ) এক দ্বিতীয়াংশ হবে

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



$V \propto d$



$V \propto d^2$



$V \propto d^{-1}$



$V \propto d^{-2}$



$V \propto d^3$



$V \propto d^4$



$V \propto d^5$



$V \propto d^6$



$V \propto d^7$



$V \propto d^8$



$V \propto d^9$



$V \propto d^{10}$



$V \propto d^{11}$



$V \propto d^{12}$



$V \propto d^{13}$



$V \propto d^{14}$



$V \propto d^{15}$



$V \propto d^{16}$

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