

ঢাকা বোর্ড

বহুনির্বাচনি অজীকার

পদার্থবিজ্ঞানে

দ্বিতীয় পত্র

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

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সেট :

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[বিশেষ প্রতিদ্বন্দ্বীতা:—সরকারাধিকৃত বহুনির্বাচনি অজীকার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বলা হয়েছে কলাম দ্বারা সম্পূর্ণ তরুটি কর। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো প্রকার দাগ/চিহ্ন দেয়া যাবে না।

১। কোন নির্দিষ্ট পরিমাণ গ্যাসের অভ্যন্তরীণ শক্তি কেবল

- নির্ভর করে এর—
 (ক) তাপমাত্রার উপর
 (খ) চাপের উপর
 (গ) আয়তনের উপর
 (ঘ) এনট্রপির উপর

২। এনট্রপির বেলায় প্রযোজ্য—

- I. এর কোনো পরম মান নেই
 II. প্রত্যাবর্তী প্রক্রিয়ার এনট্রপির কোনো পরিবর্তন হয় না
 III. অপ্রত্যাবর্তী প্রক্রিয়ায় এনট্রপি হির থাকে

নিচের কোনটি সঠিক?

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

নিচের উদ্বীপকের আলোক ৩ ও ৪সহ প্রশ্নের উত্তর দাও :

একটি কার্ণো ইঞ্জিন পৃষ্ঠীত তাপের $\frac{1}{4}$ অংশ কাজে পরিণত করে। এর তাপ গ্রাহকের তাপমাত্রা 30 K কমালে দক্ষতা বিগুণ হয়।

৩। ইঞ্জিনের দক্ষতা কত?

- (ক) 80% (খ) 75%
 (গ) 33% (ঘ) 25%

৪। তাপ উৎসের তাপমাত্রা কত?

- (ক) 60 K (খ) 90 K
 (গ) 120 K (ঘ) 150 K

৫। বায়ু-সংযুক্ত বস্তুর তড়িৎ বিভব—

- (ক) ধনাত্মক (খ) শূন্য
 (গ) ঋণাত্মক (ঘ) অসীম

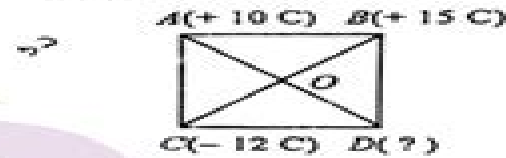
৬। তুল্যের সূত্র—

- I. কেবল বিদ্যুৎ চার্জের ক্ষেত্রে প্রযোজ্য
 II. পৃষ্ঠীকৃত চার্জের ক্ষেত্রে প্রযোজ্য নয়
 III. মাধ্যমের উপর নির্ভর করে

নিচের কোনটি সঠিক?

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

৭। চিত্রে বর্ণাঙ্কিতের D বিন্দুতে কত চার্জ স্থাপন করলে এর কেন্দ্রে বিভব শূন্য হবে?



- (ক) -15 C (খ) -13 C
 (গ) -10 C (ঘ) 0 C

৮। অ্যাম্পিয়ার ঘণ্টা কীনের একক?

- (ক) সময় (খ) তড়িৎ শক্তি
 (গ) তড়িৎ প্রবাহ (ঘ) তড়িৎ আধান

৯। কোন দুটি সূত্র চল তড়িৎ এর ক্ষেত্রে প্রযোজ্য?

- (ক) তুল্য ও ওহম
 (খ) গাউস ও কার্শফ
 (গ) তুল্য ও বাঁস
 (ঘ) ওহম ও কার্শফ

১০। 1-8 Ω রোধের একটি অ্যামিটার 2A তড়িৎ প্রবাহ প্রদান করতে পারে। 20A তড়িৎ প্রবাহ মাপার জন্য কত রোধের শাট ব্যবহার করতে হবে?

- (ক) 0.08 Ω (খ) 0.1 Ω
 (গ) 0.2 Ω (ঘ) 5 Ω

১১। অসমবর্তিত আলোক তন্ত্রকে সমবর্তিত আলোক তন্ত্রিতে রূপান্তর করা সম্ভব কোন প্রক্রিয়ায়?

- (ক) ব্যক্তিগত (খ) অপবর্তন
 (গ) সমবর্তন (ঘ) প্রতিফলন

১২। তরঙ্গদুর্বেশের বৈশিষ্ট্য হলো—

- I. তরঙ্গদুর্বেশের প্রতিটি কণা একই দশায় থাকে
 II. তরঙ্গদুর্বেশের সাথে অভিন্ন অতিদ্রুত আলোক তন্ত্রের নিক নির্দেশ করে
 III. নির্দিষ্ট তরঙ্গের তরঙ্গদুর্বেশ সর্বদা সমান্তরাল হবে

নিচের কোনটি সঠিক?

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

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