

# ঢাকা বোর্ড

বহুনির্বাচনি অধীক্ষা

পদার্থবিজ্ঞানে

দ্বিতীয় পর

[২০২৩ সালের সিলেবাস অনুযায়ী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

1 7 5

সেট :

ক

[বিশেষ প্রতিস্থা:—সরকারীকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বলা হয়েছে কলাম দ্বারা সম্পূর্ণ করতে। 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 উদাহরণের আলোক ৩ ও ৪nm প্রশ্নের উত্তর দাও :

একটি কার্ণী ইঞ্জিন পৃথিবীত তাপের  $\frac{1}{4}$  অপে কাজে পরিণত করে। এর তাপ গ্রাহকের তাপমাত্রা 30 K কমলে দক্ষতা কিভাবে 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। যু-সংযুক্ত বস্তুর তড়িৎ বিভব—

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

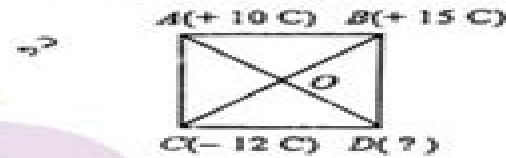
৬। তুল্যের সূত্র—

- I. কেবল বিদ্যুৎ চার্জের ক্ষেত্রে প্রযোজ্য
- II. প্রতিবর্তী চার্জের ক্ষেত্রে প্রযোজ্য নয়
- III. যান্ত্রিকের 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 বর্ণিত ক্ষেত্রে D বিন্দুতে কত চার্জ স্থাপন করলে এর কেন্দ্রে বিভব শূন্য হবে?



- (ক) -15 C
- (খ) -10 C
- (গ) -13 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 কার্ণী
- (গ) তুল্য ও বাঁস
- (ঘ) ওহম ও কার্ণী

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

- (ক) 0.08  $\Omega$
- (খ) 0.1  $\Omega$
- (গ) 0.2  $\Omega$
- (ঘ) 5  $\Omega$

১১। অসমবর্তিত আলোক প্রতিফল সমবর্তিত আলোক প্রতিফলিত অপেক্ষে করা সম্ভব কোন প্রক্রিয়ায়?

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

১২। তরঙ্গদুয়ের বৈশিষ্ট্য হলো—

- I. তরঙ্গদুয়ের প্রতিটি কণা একই দশার থাকে
- II. তরঙ্গদুয়ের সাথে অধিকতর অতিদ্রুত আলোক তরঙ্গের নিক নির্দেশ করে
- III. নির্দিষ্ট তরঙ্গের তরঙ্গদুয় 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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