

ঢাকা বোর্ড

বহুনির্বাচনি অধীক্ষা
পদার্থবিজ্ঞান
বিভাগীয় পরীক্ষা
[২০২৪ সালের সিলেবাস অনুযায়ী]
সময়—২৫ মিনিট
পূর্ণমান—২৫

বিষয় কোড :

1 7 5

সেট :

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[বিশেষ প্রতিব্য: সরবরাহকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রাপ্ত ত্রুটিবদ্ধ নামের বিপরীতে প্রদত্ত কর্ণসম্পন্ন বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বলা গয়েই কলাম দ্বারা সম্পূর্ণ করতে হবে। প্রতিটি প্রশ্নের মান ১।]

প্রশ্নপত্রে কোনো একক নাম/চিহ্ন দেয়া যাবে না।

- ১। হাইড্রোজেনের তরঙ্গ তত্ত্বের সাহায্যে নিচের কোনটি ব্যাখ্যা করা যায় না?

(ক) সমবর্তন (খ) অপবর্তন
(গ) ব্যতিচার (ঘ) প্রতিসরণ

- ২। ${}^{14}_7\text{N} + {}^4_2\text{He} \rightarrow {}^{16}_8\text{O} + 2{}^1_1\text{H} + \text{X}$ একটি

নিউক্লিয়ার বিক্রিয়া। অজানা X হবে একটি—
(ক) গামা রশ্মি (খ) ইলেকট্রন
(গ) আলফা কণা (ঘ) নিউট্রন

- ৩। ইলেকট্রন ভোল্ট (eV) হচ্ছে—

I. 1V বিভব পার্থক্যে একটি ইলেকট্রন সরাসরি কাজ
II. কোয়ান্টাম বলবিদ্যার ব্যবহৃত শক্তির একক
III. $1\text{eV} = 1.6 \times 10^{-19}\text{J}$

নিচের কোনটি সঠিক?

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

- ৪।



তিনের P বিন্দুতে শূন্য মাধ্যমে তড়িৎ প্রাবল্য কত?

(ক) $\frac{\sigma}{\epsilon_0}$ (খ) 0 (গ) 1 (ঘ) $\frac{\sigma}{2\epsilon_0}$

- ৫। একটি রেফ্রিজারেটর শীতল তাপমাত্রা থেকে 450 J তাপ গ্রহণ করে উষ্ণ তাপমাত্রা থেকে 600 J তাপশক্তি বর্জন করে। রেফ্রিজারেটরটির কর্মসম্পাদন সহন কত?

(ক) 3 (খ) 4 (গ) 1.83 (ঘ) 2.33

- ৬। তাপতানীয় পরিবর্তনের ক্ষেত্রে—

I. $P_1 V_1^\gamma = P_2 V_2^\gamma$
II. $P_1^{1-\gamma} T_1^\gamma = P_2^{1-\gamma} T_2^\gamma$
III. $T_1^\gamma V_1^{1-\gamma} = T_2^\gamma V_2^{1-\gamma}$

নিচের কোনটি সঠিক?

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

- ৭। কোনটি ধনাত্মক আধানযুক্ত বিশিষ্ট নিউক্লিয়াস?

(ক) আলফা কণা (খ) বিটা কণা
(গ) গামা রশ্মি (ঘ) এক্স রশ্মি

- ৮। অণুর অপবর্তনের ক্ষেত্রে—

I. কেন্দ্রীয় উদ্ভঙ্গ পটীর তীব্রতা সর্বোচ্চ
II. পূর্ণ অঙ্কুরের বিস্মৃ সূত্রি হয় না
III. কোয়ান্টামের গ্রহ সমান

নিচের কোনটি সঠিক?

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

নিচের ত্রিভুজীক ইচ্ছা এর বি-ভিত্ত পটীকন ব্যবহৃত দেখানো হলো। এখানে S হলো অলোকে উৎস। S₁ ও S₂ হলো তিরস্বর এবং PQ হলো পর্দা।
তিনের আলোকে ৯ এবং ১০ম প্রশ্নের উত্তর দাও।



- ৯। উদ্ভীলক অনুসারে P বিন্দুতে পটীকনুলক ব্যতিচার তৈরি হবে যদি S₁ ও S₂ তিরস্বর থেকে নিরসৃত তরঙ্গদ্বয়ের মধ্যে দশা পার্থক্য হয় কত?

(ক) $3\pi/2$ (খ) 4π (গ) $\pi/2$ (ঘ) $5\pi/2$
[পর পৃষ্ঠা প্রদর্শন]

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