

বহুনির্বাচনি অধীক্ষা

পদার্থবিজ্ঞান

দ্বিতীয় পত্র

[২০২৪ সালের নিম্নোক্তান অধ্যয়নী]

সময়—২৫ মিনিট

পূর্ণমান—২৫

স্বাক্ষরিত

বিষয় কোড :

1 7 5

সেট :

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[বিশেষ প্রটোকল] পরবর্তীকৃত বহুনির্বাচনি অধীক্ষার উত্তরপত্রে প্রাপ্তের ত্রুটিসহ সময়ের বিপরীতে অন্যতর কনিষ্ঠমিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি কল পয়েন্ট কলম দ্বারা সম্পূর্ণ করণ কর। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রে কোণের প্রকার দান/চিহ্ন দেখা যাবে না।

১। কোন নিউক্লিয়াসটির প্রতি নিউক্লিয়ন বন্ধন শক্তি সর্বোচ্চ?

- (ক) হিলিয়াম (খ) অক্সিজেন
(গ) আয়রন (ঘ) সোনা

২। সমান ধারকত্বের তিনটি ধারক প্রত্যেক প্রেনিতে একা পরে সমান্তরালে যুক্ত করা হলো। এই যুক্তির ফলে ধারকত্বের অনুপাত কত হবে?

- (ক) ১ : ৪ (খ) ১ : ৬
(গ) ১ : ৯ (ঘ) ১ : ১২

৩। নির্দিষ্ট পরিমাণে প্যাসের অভ্যন্তরীণ শক্তি নির্ভর করে কীসের উপর?

- (ক) তাপ (খ) আয়তন
(গ) ভরবেগ (ঘ) প্যাসের

৪। দু'শব্দ প্রবাহের একক কোনটি?

- (ক) $C^2 N^{-1} m^{-2}$ (খ) $C^2 N m^{-2}$
(গ) $N m^2 C^{-2}$ (ঘ) $N m^2 C^2$

৫। নিচের কোন পর্যায়ের পরাণবৃত্তিক প্রবাহের মান সর্বোচ্চ?

- (ক) বার (খ) ক্যাল
(গ) নিলিকন (ঘ) পট

৬। হাইড্রোজেন তরঙ্গ তত্ত্বের সাহায্যে নিচের কোনটি ব্যাখ্যা করা যায় না?

- (ক) সত্যবর্তন (খ) অপবর্তন
(গ) ব্যতিচার (ঘ) প্রতিফলন

৭। ${}^{14}_7N + {}^4_2He \rightarrow {}^{16}_8O + 2{}^1_1H + X$ একটি

নিউক্লিয়ার বিক্রিয়া। অজানা X হবে একটি—

- (ক) গামা রশ্মি (খ) ইলেকট্রন
(গ) আলফা কণা (ঘ) নিউট্রন

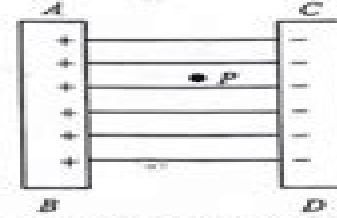
৮। ইলেকট্রন কোণ্ট (eV) হচ্ছে—

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

নিচের কোনটি সঠিক?

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

৯।



১০। চিত্রে P বিন্দুতে শূন্য মাধ্যমে তড়িৎ প্রাবল্য কত?

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

১১। একটি রেফ্রিজারেটর শীতল অংশের থেকে 450 J তাপ গ্রহণ করে উষ্ণ অংশের 600 J তাপশক্তি তর্জন করে। রেফ্রিজারেটরটির কার্যক্ষমতা সর্বোচ্চ কত?

- (ক) 3 (খ) 4 (গ) 1.83 (ঘ) 2.33

১২। তাপগতিসূত্র পরিবর্তনের ক্ষেত্রে—

- I. $P_1 V_1^{1-\gamma} = P_2 V_2^{1-\gamma}$
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

১৩। কোনটি খনাত্মক আধানযুক্ত হিলিয়াম নিউক্লিয়াস?

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

১৪। আলোর অপবর্তনের ক্ষেত্রে—

- I. কেন্দ্রীয় উজ্জ্বল পট্টের তীব্রতা সর্বোচ্চ
II. পূর্ণ অভ্যন্তরীণ বিক্ষৃপ্তি হয় না
III. তেজোবিস্তার প্রায় সমান

নিচের কোনটি সঠিক?

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

[পর পৃষ্ঠা প্রটোকল]

স্বাক্ষরিত

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Rachel Sandford



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