

স্বাক্ষরিত

বহুনির্বাচনি অধীক্ষক

পদার্থবিজ্ঞান

দ্বিতীয় পত্র

[২০২৪ সালের নিম্নোক্তান অধ্যয়ন]

সময়—২৫ মিনিট

পূর্ণমান—২৫

বিষয় কোড :

1 7 5

সেট :

খ

[বিশেষ প্রটোকল] পরবর্তীকৃত বহুনির্বাচনি অধীক্ষকের উপস্থাপনে প্রাপ্তের তথ্যিক সময়ের বিপরীতে এদের কর্তৃকপ্রদত্ত পূর্ণমান হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের পূর্ণটি বলা হয়েছে। কলম দ্বারা সম্পূর্ণ করতে হবে। প্রতিটি প্রশ্নের মান ১।

প্রশ্নপত্রের কোনো প্রকার দাম/ভিত্তি নেই।

১। কোন নিউক্লিয়াসটির প্রতি নিউক্লিয়ন বন্ধন শক্তি সর্বোচ্চ?

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

২। সমান ধারকত্বের তিনটি ধারক প্রত্যেক প্রেক্ষিতে একাধারে 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) ভোল (খ) আয়তন  
(গ) তাপমাত্রা (ঘ) প্যাসের

৪। দু'শব্দ প্রত্যেকের একটি 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 পদার্থের পর্যবেক্ষিত প্রবণত্বের মান সর্বোচ্চ?

- (ক) বায়ু (খ) কাগজ  
(গ) নিলিকন (ঘ) পানি

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

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

৭।  ${}^{14}_7\text{N} + {}^4_2\text{He} \rightarrow {}^{16}_8\text{O} + 2 {}^1_1\text{H} + \text{X}$  একটি

নিউক্লিয়ার বিক্রিয়া। অজানা X হবে একটি—

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

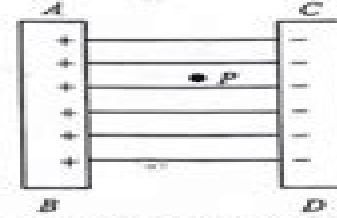
৮। ইলেকট্রন কোণ্ট (eV) হচ্ছে—

- I. 1V বিভব পার্থক্যে একটি ইলেকট্রন সরাসরি কাজ  
II. কোয়ান্টাম বলবিদ্যায় 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

৯।



নিচের P বিন্দুতে শূন্য দূরত্বে তড়িৎ প্রাবল্য কত?

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

১০। একটি রেফ্রিজারেটর শীতল আশ্রয়ের থেকে 450 J তাপ গ্রহণ করে উষ্ণ আশ্রয়ের 600 J তাপশক্তি ত্যাগ করে। রেফ্রিজারেটরের কার্যক্ষমতামাত্র কত?

- (ক) 3 (খ) 4 (গ) 1.83 (ঘ) 2.33

১১। তাপতানুপাত 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

১২। কোনটি খনাত্মক আধানযুক্ত হিলিয়াম নিউক্লিয়াস?

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

১৩। আলোর অপবর্তনের ক্ষেত্রে—

- I. কেন্দ্রীয় উজ্জ্বল পটীর তীব্রতা সর্বোচ্চ  
II. পূর্ণ অভ্যন্তরীণ বিক্ষিপ্তি 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]

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