

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

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

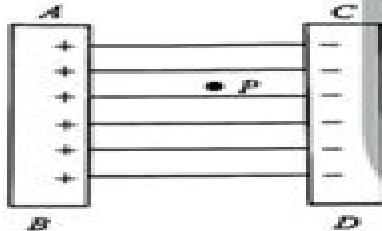
- ৩। ইলেকট্রন ভোল্ট (eV) হচ্ছে—

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।



চিত্রের 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 তাপাধারে থেকে 450 J তাপ গ্রহণ করে উষ্ণ তাপাধারে 600 J তাপ-শক্তি 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

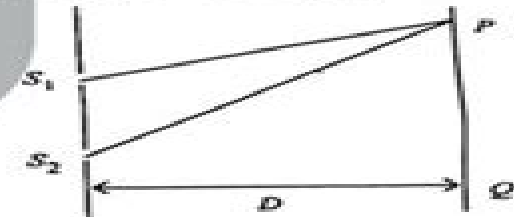
- ৮। অংশের অপবর্তনের ক্ষেত্রে—

I. কেন্দ্রীয় উদ্ভঙ্গ পট্টের তীব্রতা সর্বোচ্চ
II. পূর্ণ অভ্রমের বিস্মৃ সূত্রি হয় না
III. কোরাসংশের প্রস্থ সমান

নিচের কোনটি সঠিক?

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

নিচের চিত্রটি ইচ্ছা-এর নি-চিহ্ন পরীক্ষণ ব্যবস্থা দেখানো হলো। এখানে S হলো আলোকে উৎস। S₁ ও S₂ হলো চিরময় এবং PQ হলো পর্দা।
চিত্রের আলোকে λ এবং λ_0 প্রাপ্ত উত্তর দাও।



- ৯। উদ্ভীলক অনুসারে P বিন্দুতে পঠনমূলক ব্যতিচার তৈরি হবে যদি S₁ ও S₂ চিত্রের থেকে নিরসৃত তরঙ্গদৈর্ঘ্যের মধ্যে দশা পার্থক্য হয় কত?

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

Answer Of Hsc 14 Phycis 2nd

Daniela Niemeyer



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web mar 23 2022 undulating periodization is a type of training where volume and intensity go up and down either weekly or daily within the training period weekly undulating periodization wup changes the volume and intensity week to week and daily undulating periodization dup adjusts the volume and intensity daily between training