

- গ. উপরের উদ্দীপকের কুণ্ডলীতে আবিষ্ট তড়িৎচালক শক্তি নির্ণয় কর। ৩
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৮. হাইড্রোজেন পরমাণুর কক্ষপথে একটি ইলেকট্রন গতিশীল, যেখানে $E_0 = 8.85 \times 10^{-12} \text{ C}^2 \text{ N}^{-2} \text{ m}^{-2} \text{ h} = 6.63 \times 10^{-34} \text{ Js}$ । ইলেকট্রনের ভর $= 9.11 \times 10^{-31} \text{ Kg}$ এবং আধান $1.6 \times 10^{-19} \text{ C}$ ।
- ক. বিনতি কি? ১
- খ. সকল প্রাকৃতিক পরিবর্তন অপ্রত্যাভর্তন প্রক্রিয়া ব্যাখ্যা কর। ২
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- ঘ. উপরের উদ্দীপকের ১ম কক্ষপথে মোট শক্তি বা ইলেকট্রনের মোট শক্তি নির্ণয় কর। মোট শক্তি যদি ঋনাত্মক হয় তার কারণ বা তাৎপর্য ব্যাখ্যা কর। ৪

বিষয় : পদার্থবিজ্ঞান ২য় পত্র (বহুনির্বাচনি)

বিষয় কোড : ১ ৭ ৫

পূর্ণমান : ২৫

সময় : ২৫ মিনিট

[বিশেষ নোট : সরবরাহকৃত বহুনির্বাচনি অঙ্কিত/উত্তরপত্রের প্রশ্নের ক্রমিক নম্বরের বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরের বৃত্তটি বলপূর্বক কলম দ্বারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান-১]

১. বিদ্যুৎ-চুম্বক সংঘটিত হয়েছিল—
 (a) মহাকাশে (b) পৃথিবীতে (c) সৌরজগতে (d) সবই
২. কোন কণা "সিঁথুর কণা" নামে পরিচিত?
 (a) বোসন কণা (b) মেসন কণা
 (c) হিগস-বোসন কণা (d) স্লেপটন কণা
৩. সূর্য প্রতি সেকেন্ডে শক্তি বিকিরণ করে—
 (a) $4 \times 10^{26} \text{ J}$ (b) $4 \times 10^{27} \text{ J}$
 (c) $4 \times 10^{28} \text{ J}$ (d) $4 \times 10^{29} \text{ J}$
৪. PN জংশন অ্যাপ্লিকেশন কয়টি—
 i. বিকিরক হিসেবে ii. একদুই কারক হিসেবে
 iii. ডায়োড হিসেবে
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
৫. কুলম্বিয়ন ইলেকট্রনিক অনুযায়ী $\bar{U}$ এর মান কত?
 (a) 0 (b) 1 (c) T (d) -1
৬. $I_b = 0.05 \text{ mA}$, $I_c = 2 \text{ mA}$ হলে β = ?
 (a) 40 (b) 50 (c) 0.04 (d) 0.2
৭. বোলের হাইড্রোজেন মডেল অনুযায়ী কৃত্রিম বোর কক্ষের ব্যাসার্ধ প্রথম বোর কক্ষের ব্যাসার্ধ কতগুন—
 (a) $\frac{1}{9}$ গুন (b) $\frac{1}{3}$ গুন (c) 3 গুন (d) 9 গুন
৮. বেডনের অর্ধায়ু 3.82 দিন। বেডনে—
 i. তেজস্ক্রিয় ক্রমকের মান $0.00000025 \text{ S}^{-1}$
 ii. $\frac{1}{20}$ অংশ অপরিবর্তিত থাকবে 16.54 দিন পর
 iii. তেজস্ক্রিয় ক্রমকের মান 0.1812 S^{-1}
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
৯. সেলিয়ামের সূচক তরঙ্গ দৈর্ঘ্য 6800 Å হলে এর কার্যদক্ষতা কত?
 (a) 1.83 eV (b) 1.81 eV (c) 1.9 eV (d) 1.6 eV
১০. একদুই—
 i. তড়িৎচুম্বকীয় তরঙ্গ
 ii. তড়িৎক্ষেত্র দ্বারা চিহ্নিত হয়
 iii. আলোর বেগে চলে
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
১১. ভরশক্তির সম্পর্ক হলো—
 (a) $E = \frac{m}{c}$ (b) $E = \frac{c}{m}$ (c) $E = mvc^2$ (d) $E = mc^2$
১২. একটি ইলেকট্রন 0.99c দ্রুতিতে গতিশীল হলে এর ভরমান কত কত?
 (a) $5.46 \times 10^{-30} \text{ Kg}$ (b) $6.45 \times 10^{-30} \text{ Kg}$
 (c) $6.45 \times 10^{-31} \text{ Kg}$ (d) $5.46 \times 10^{-31} \text{ Kg}$
১৩. আলোর ব্যতিক্রমের শর্ত—
 i. আলোক উৎস দুটি সুসঙ্গত হতে হবে
 ii. উৎস দুটি ক্ষুদ্র ও সুস্থ হতে হবে
 iii. উৎস দুটি পরস্পর থেকে দূরে হতে হবে
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
১৪. একটি তরঙ্গের দুটি বিন্দুর মধ্যে দশা পার্থক্য $\frac{\pi}{2}$ বিন্দুদ্বয়ের পথ পার্থক্য কত?
 (a) $\frac{\lambda}{2}$ (b) $\frac{\lambda}{4}$ (c) $\frac{3\lambda}{4}$ (d) λ
১৫. একটি ন্যূনতম দূরত্বের তরঙ্গের অভিলক্ষ্য ও অভিমুখের কোণের দূরত্ব যথাক্রমে 0.5m ও 0.05 m।
 উদ্দীপকটি পড়ে ১৫ ও ১৬ নং প্রশ্নের উত্তর দাও।
১৬. দৃষ্টির বিকর্ষণ কত?
 (a) 10 (b) 12 (c) 16 (d) 20
১৭. দৃষ্টির মনের সীমা কত?
 (a) 0.60 m (b) 0.50 m (c) 0.55 m (d) 0.64 m
১৮. স্বতন্ত্র আবেশ গুলোর একটি—
 i. H ii. WbA^{-1} iii. VA^{-1}
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
১৯. 
 উদ্দীপকে কোন কোন সময়ে E এর মান সর্বোচ্চ হবে?
 (a) 0.3T (b) $\frac{T}{4}$ ও $\frac{3T}{4}$ (c) $\frac{T}{2}$ ও T (d) $\frac{T}{2}$ ও $\frac{3T}{4}$
২০. 220V উৎসের শীর্ষমান—
 (a) 100V (b) 220V (c) 311V (d) 440V
২১. লব্ধ বল হচ্ছে—
 (a) qE (b) $q(V \times B)$
 (c) $q(E \times V \times B)$ (d) $q(E + V \times B)$
২২. তিনজনের সূত্র হলো—
 i. $\sum r = e$ ii. $\sum r = 0$ iii. $\sum i = 0$
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
২৩. 
 I এর মান কত?
 (a) 2.2 A (b) 0.2 A (c) 2 A (d) 1.8 A
২৪. একটি তড়িৎ ঘ্রমেতর চার্জের দুটির পরিমাণ কত হবে?
 (a) $2 \times 10^{-19} \text{ C}$ ও $8 \times 10^{-19} \text{ C}$ (b) $6 \times 10^{-19} \text{ C}$ ও $-4 \times 10^{-19} \text{ C}$
 (c) $5 \times 10^{-19} \text{ C}$ ও $-5 \times 10^{-19} \text{ C}$ (d) $3 \times 10^{-19} \text{ C}$ ও $7 \times 10^{-19} \text{ C}$
২৫. একটি তাপ উৎসের কার্যকর বয় 600K তাপমাত্রায় উৎস হতে [200J] তাপগ্রহণ করে শীতল আধারে 300J তাপ কর্তন করে।
 উদ্দীপকটি পড়ে ২৪ ও ২৫ নং প্রশ্নের উত্তর দাও।
২৬. শীতল আধারের তাপমাত্রা কত?
 (a) 150 K (b) 300 K (c) 600 K (d) 2400 K
২৭. ইলেকট্রনের দক্ষতা কত?
 (a) 44% (b) 75% (c) 60% (d) 50%

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