

- 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 প্রস্তাবিত সঠিক উত্তরগুলির বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরটি স্পষ্টভাবে কলম দ্বারা সম্পূর্ণ ভরাট কর। প্রতিটি প্রশ্নের মান-১]

১. বিদ্যুৎ-চুম্বক সংঘটিত হলে—
 (a) মহাকাশে (b) পৃথিবীতে (c) সৌরজগতে (d) সবত্র
২. কোন কণা "সিঁদুর কণা" নামে পরিচিত?
 (a) বোসন কণা (b) মেসন কণা
 (c) হিগস-বোসন কণা (d) স্কেলার 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—
 i. বিকিরণ হিসেবে ii. একদুই কারক হিসেবে
 iii. ভোল্টেজ স্থিতিস্থাপক হিসেবে
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
৫. কুলিড্যান ইলেকট্রনিক অনুঘাতী টি এর মান কত?
 (a) 0 (b) 1 (c) T (d) -1
৬. $I_b = 0.05 \text{ mA}$, $I_c = 2 \text{ mA}$ হলে $\beta = ?$
 (a) 40 (b) 50 (c) 0.04 (d) 0.2
৭. বোলের হাইড্রোজেন মডেল অনুযায়ী কৃত্রিম বোর কক্ষের ব্যাসার্ধ প্রথম বোর কক্ষের ব্যাসার্ধ কতগুণ—
 (a) $\frac{1}{9}$ গুণ (b) $\frac{1}{3}$ গুণ (c) 3 গুণ (d) 9 গুণ
৮. বেডনের অর্ধায়ু 3.82 দিন। বেডনে—
 i. তেজস্ক্রিয় ক্রমকের মান $0.00000025 \text{ S}^{-1}$
 ii. $\frac{1}{20}$ অংশ অবশিষ্টকৃত 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 কার্যপেক্ষ কত?
 (a) 1.83 eV (b) 1.81 eV (c) 1.9 eV (d) 1.6 eV
১০. একদুই—
 i. তড়িৎচুম্বকীয় তরঙ্গ
 ii. তড়িৎচুম্বক দ্বারা বিকিরণ 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 দ্বারা অতিক্রম করা ও অতিক্রমের কোণের দূরত্ব যথাক্রমে 0.5 m ও 0.05 m।
 উদ্দীপকটি পড়ে ১৫ ও ১৬ নং প্রশ্নের উত্তর দাও।
১৬. দ্রুতির বিকিরণ কত?
 (a) 10 (b) 12 (c) 16 (d) 20
১৭. দ্রুতির নলের দৈর্ঘ্য কত?
 (a) 0.60 m (b) 0.50 m (c) 0.55 m (d) 0.64 m
১৮. স্বতন্ত্র আবেশ গুণাঙ্কের একক—
 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) 0.3 T (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 ঘ্রমকের চার্জের দ্রুতির 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 1200J 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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