গ. উপরের উদ্দীপকের কুন্ডলীতে আবিষ্ট তড়িৎচালক শক্তি নির্ণয় কর। ৩

ঘ. উপরের উদ্দীপকের কুন্ডলীতে কি ধরনের আবেশ তৈরি হবে সেই আবেশ গুণাংক নির্ণয় কর এবং কুন্ডলীতে সঞ্চিত শক্তির পরিমাণ নির্ণয় কর। ৪

৮. হাইড্রোজেন পরমাণুর কক্ষপথে একটি ইলেকট্রন গতিশীল, যেখানে $\epsilon_0 = 8.85\times10^{-12}c^2N^{-2}m^{-2}$ $h = 6.63\times10^{-34}$ Js. ইলেকট্রনের ভর $= 9.11\times10^{-31}$ Kg এবং আধান 1.6×10^{-19}c.

ক. বিনতি কি? ১

খ. সকল প্রাকৃতিক পরিবর্তন অপ্রত্যাবর্তন প্রক্রিয়া ব্যাখ্যা কর। ২

গ. উপরের উদ্দীপক থেকে হাইড্রোজেন পরমাণুর অনুমোদিত প্রথম কক্ষপথের ব্যাসার্ধ নির্ণয় কর। ৩

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

সময় ঃ ২৫ মিনিট পূর্ণমান—২৫

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

১. বিগ-ব্যাং সংঘটিত হয়েছিল—
(ক) মহাকাশে (খ) পৃথিবীতে (গ) সৌরজগতে (ঘ) সর্বত্র

২. কোন কণা 'ঈশ্বর কণা' নামে পরিচিত?
(ক) বোসন কণা (খ) মেসন কণা
(গ) হিগস-বোসন কণা (ঘ) লেপটন কণা

৩. সূর্য প্রতি সেকেন্ডে শক্তি বিকিরণ করে—
(ক) 4×10^{26} J (খ) 4×10^{27} J
(গ) 4×10^{28} J (ঘ) 4×10^{29} J

৪. PN জাংশন ডায়োড ব্যবহার করা যায়—
i. বিবর্ধক হিসেবে ii. একমুখী কারক হিসাবে
iii. ভোল্টেজ স্থিতিস্থাপক হিসেবে
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

৫. বুলিয়ান বীজগণিত অনুযায়ী $\bar{O}$ এর মান কত?
(ক) 0 (খ) 1 (গ) $\bar{1}$ (ঘ) −1

৬. $I_b = 0.05$ mA, $I_c = 2$mA হলে $\beta = ?$
(ক) 40 (খ) 50 (গ) 0.04 (ঘ) 0.2

৭. বোরের হাইড্রোজেন মডেল অনুযায়ী তৃতীয় বোর কক্ষের ব্যাসার্ধ প্রথম বোর কক্ষের ব্যাসার্ধ কতগুণ—
(ক) $\frac{1}{9}$ গুণ (খ) $\frac{1}{3}$ গুণ (গ) 3 গুণ (ঘ) 9 গুণ

৮. রেডনের অর্ধায়ু 3.82 দিন। রেডনের—
i. তেজস্ক্রিয় ধ্রুবকের মান $0.0000002S^{-1}$
ii. $\frac{1}{20}$ অংশ অপরিবর্তিত থাকবে 16.54 দিন পর
iii. তেজস্ক্রিয় ধ্রুবকের মান $0.1812S^{-1}$
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

৯. সোডিয়ামের সুচল তরঙ্গ দৈর্ঘ্য 6800A° হলে এর কার্যাপেক্ষক কত?
(ক) 1.83 ev (খ) 1.81 ev (গ) 1.9 ev (ঘ) 1.6 ev

১০. এক্সরশ্মি—
i. তড়িচ্চুম্বকীয় তরঙ্গ
ii. তড়িৎক্ষেত্র দ্বারা বিক্ষিপ্ত হয়
iii. আলোর বেগে চলে
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

১১. ভরশক্তির সম্পর্ক হলো—
(ক) $E = \frac{m}{c^2}$ (খ) $E = \frac{c^2}{m}$ (গ) $E = mvc^2$ (ঘ) $E = mc^2$

১২. একটি ইলেকট্রন 0.99c দ্রুতিতে গতিশীল হলে এর চলমান ভর কত?
(ক) 5.46×10^{-30} Kg (খ) 6.45×10^{-30} Kg
(গ) 6.45×10^{-31} Kg (ঘ) 5.46×10^{-31} kg

১৩. আলোর ব্যতিচারের শর্ত—
i. আলোক উৎস দুটি সুসঙ্গত হতে হবে
ii. উৎস দুটি ক্ষুদ্র ও সূক্ষ্ম হতে হবে
iii. উৎস দুটি পরস্পর থেকে দূরে হতে হবে
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

১৪. একটি তরঙ্গের দুটি বিন্দুর মধ্যে দশা পার্থক্য $\frac{\pi}{2}$ বিন্দুদ্বয়ের পথ পার্থক্য কত?
(ক) $\frac{\lambda}{2}$ (খ) $\frac{\lambda}{4}$ (গ) $\frac{3\lambda}{4}$ (ঘ) λ

একটি নভো-দূরবীক্ষণ যন্ত্রের অভিলক্ষ্য ও অভিনেত্রের ফোকাস দূরত্ব যথাক্রমে 0.5m ও 0.05 m।
উদ্দীপকটি পড়ে ১৫ ও ১৬ নং প্রশ্নের উত্তর দাও ঃ

১৫. যন্ত্রটির বিবর্ধন কত?
(ক) 10 (খ) 12 (গ) 16 (ঘ) 20

১৬. যন্ত্রটির নলের দৈর্ঘ্য কত?
(ক) 0.60 m (খ) 0.50 m (গ) 0.55 m (ঘ) 0.64 m

১৭. স্বকীয় আবেশ গুণাঙ্কের একক—
i. H ii. WbA^{-1} iii. VA^{-1}
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

১৮.

উদ্দীপকে কোন কোন সময়ে E এর মান সর্বোচ্চ হবে?
(ক) 0.3T (খ) $\frac{T}{4}$ ও $\frac{3T}{4}$ (গ) $\frac{T}{2}$ ও T (ঘ) $\frac{T}{2}$ ও $\frac{T}{4}$

১৯. 220V উৎসের শীর্ষমান—
(ক) 100V (খ) 220V (গ) 311V (ঘ) 440V

২০. লরেঞ্জ বল হচ্ছে—
(ক) $q\vec{E}$ (খ) $q(\vec{V}\times\vec{B})$
(গ) $q(\vec{E}\times\vec{V}\times\vec{B})$ (ঘ) $q(\vec{E}+\vec{V}\times\vec{B})$

২১. কিশফের সূত্র হলো—
i. $\sum ir = \epsilon$ ii. $\sum r = 0$ iii. $\sum i = 0$
নিচের কোনটি সঠিক?
(ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

২২.

I এর মান কত?
(ক) 2.2 A (খ) 0.2 A (গ) 2 A (ঘ) 1.8 A

২৩. একটি তড়িৎ দ্বিমেরুর চার্জের দুটির পরিমাণ কত হবে?
(ক) 2×10^{-19} c ও 8×10^{-19}c (খ) 6×10^{-19}c ও -4×10^{-19}c
(গ) 5×10^{-19}c ও -5×10^{-19}c (ঘ) 3×10^{-19}c 7×10^{-19}c

একটি তাপ ইঞ্জিনের কার্যকর বস্তু 600K তাপমাত্রায় উৎস হতে 1200J তাপগ্রহণ করে শীতল আধারে 300J তাপ বর্জন করে।
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২৪. শীতল আধারের তাপমাত্রা কত?
(ক) 150 K (খ) 300 K (গ) 600 K (ঘ) 2400 K

২৫. ইঞ্জিনটির দক্ষতা কত?
(ক) 44% (খ) 75% (গ) 60% (ঘ) 50%

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