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বিষয় : পদার্থবিজ্ঞান ২য় পত্র (বহুনির্বাচনি)

বিষয় কোড : ১ ৭ ৫

পূর্ণমান : ২৫

সময় : ২৫ মিনিট

[বিশেষ নোট : সরবরাহকৃত বহুনির্বাচনি অঙ্কীকৃত উত্তরপত্রের প্রস্তাবিত সঠিক উত্তরগুলির বিপরীতে প্রদত্ত বর্ণসম্বলিত বৃত্তসমূহ হতে সঠিক/সর্বোৎকৃষ্ট উত্তরগুলি সঠিকভাবে 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 "সিঁথুর 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 কয়টি?
 i. ডায়োড 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. কুলম্বিয়ান ইন্টারঅাকশন অনুযায়ী $\frac{1}{r^2}$ এর মান কত?
 (a) 0 (b) 1 (c) T (d) -1
৬. $I_a = 0.05 \text{ mA}$, $I_c = 2 \text{ mA}$ 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. বেতনের অর্ধাঙ্গ 3.82 সিম। বেতনের—
 i. তড়িৎপ্রবাহের মান $0.00000025 \text{ S}^{-1}$
 ii. $\frac{1}{20}$ অংশ অপ্রতিরবর্তিত থাকলে 16.54 সিম পর
 iii. তড়িৎপ্রবাহের মান 0.18125 S^{-1}
 নিচের কোনটি সঠিক?
 (a) i ও ii (b) i ও iii (c) ii ও iii (d) i, ii ও iii
৯. সোলিডার্মের সূচক তরঙ্গ দৈর্ঘ্য 6800 Å হলে এর কার্যক্ষমতা কত?
 (a) 1.83 eV (b) 1.81 eV (c) 1.9 eV (d) 1.6 eV
১০. একদুই—
 i. তড়িৎচুম্বকীয় তরঙ্গ
 ii. তড়িৎচুম্বকীয় দ্বারা বিচ্ছিন্ন 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. দৃষ্টির বিকর্ষণ কত?
 (a) 10 (b) 12 (c) 16 (d) 20
১৭. দৃষ্টির দৈর্ঘ্যের সীমা 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) 0.3T (b) $\frac{T}{4}$ (c) $\frac{3T}{4}$ (d) $\frac{T}{2}$ ও T (e) $\frac{T}{2}$ ও $\frac{3T}{4}$
২০. 220V উৎসের সীমাবদ্ধতা—
 (a) 100V (b) 220V (c) 311V (d) 440V
২১. লব্ধি 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 ক্ষেত্রের 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 কার্যকারিতা 600K তাপমাত্রায় উৎস হতে 1200J তাপগ্রহণ করে শীতল আধারে 300J তাপ বর্জন 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. ইন্ট্রিনসিক দক্ষতা কত?
 (a) 44% (b) 75% (c) 60% (d) 50%

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