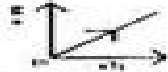


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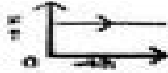
১০। পৃথিবীর কেন্দ্রে থেকে পৃথিবীর পৃষ্ঠের দিকে প্রতিবর্তিত হওয়া উপর্যুক্ত অতিবাহিত তরঙ্গের দৈর্ঘ্যের কোনটি?



(ক)



(গ)



(ঘ)



১৪। স্থিতির উপর্যুক্ত পর্যায়কাল কত?
(ক) ১২ বছর
(গ) ১ মাস

(খ) ২৪ বছর
(ঘ) ১ বছর

১৫। পৃথিবী ১৬.৫ মিলে এবং সূর্য ৪৪ মিলে দূরত্বে একসাথে প্রসঞ্চিত করে, সূর্য থেকে পৃথিবীর পত্ন দূরত্ব $1.5 \times 10^{11} \text{ m}$ হলে সূর্য থেকে বুধের পত্ন দূরত্ব কত?
(ক) $128.2 \times 10^{10} \text{ m}$
(খ) $38.68 \times 10^{10} \text{ m}$
(গ) $5.81 \times 10^{10} \text{ m}$
(ঘ) $1.77 \times 10^{10} \text{ m}$

১৬। দুটি কণুর মধ্যে দূরত্ব তিনগুন হলে মহাকর্ষীয় বল হবে—



(ক) $\frac{1}{9}$ গুন

(খ) $\frac{1}{3}$ গুন

(গ) ৩ গুন

(ঘ) ৯ গুন

১৭। নিচের কোনে ভলিউম অক্সাইডেশন গ্রাফ?
(ক) বিকৃতি
(গ) বক্রতা
(খ) বক্রতা
(ঘ) ইচ্ছা অনুসারে
(ঘ) পিচিং গ্রাফ

১৮। অণুচক্রেরে পদার্থের অনুপাত এর মান—
(ক) -1 থেকে 0.5
(খ) 0.5 থেকে 1
(গ) -1 থেকে $+1$
(ঘ) 0.5 থেকে 1.5

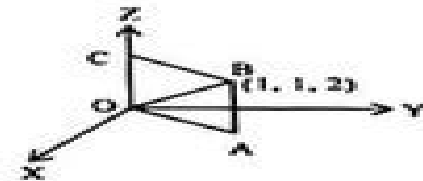
১৯। নিচের কোনটির সর্বোচ্চ দ্রুতিত্বাৎক?
(ক) সীসা
(খ) তামা
(গ) নিকেল
(ঘ) অ্যালুমিনিয়াম

২০। একটি সরলোৎসারকের কার্যকরী সীমা তিনগুন করে পৃথিবীর কেন্দ্রে নিচে গেলে এর দৈর্ঘ্যকাল—
(ক) পূর্ণ হবে
(খ) একই থাকবে
(গ) $\sqrt{3}$ গুন হবে
(ঘ) অসীম হবে

২১। একটি সরল তরঙ্গের সম্মান সমান্তর করে সীমাকাল $y = 10 \sin \left(12\pi - \frac{\pi}{6} \right) \text{ m}$, কণটির সর্বোচ্চ বেগ কত হবে?
(ক) 1440 ms^{-1}
(গ) 120 ms^{-1}
(খ) 12 ms^{-1}
(ঘ) 10 ms^{-1}

২২। তিনটি প্যাস কণুর বেগ ক্রমক্রমে 10 ms^{-1} , 15 ms^{-1} এবং 20 ms^{-1} , এদের মূল পত্ন দর্শনকাল কত?
(ক) 3.87 ms^{-1}
(খ) 15 ms^{-1}
(গ) 15.54 ms^{-1}
(ঘ) 241.66 ms^{-1}

২৩।



OABC ক্ষেত্রের ক্ষেত্রফল—

(ক) $\frac{1}{\sqrt{2}}$
(খ) $\sqrt{2}$
(গ) 2
(ঘ) $2\sqrt{2}$

২৪। সরলোৎসারীল ফলের ক্ষেত্রে—
I. পৃষ্ঠক্ষেত্রে যেটি কাজ পূর্ণা নহে
II. প্রতিপদের ওপর বিস্তার করে না
III. প্রকৃষ্ট উপর্যুক্তে আদর্শ পিচিং হল

নিচের কোনটি সঠিক?

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

২৫। কোন অবস্থায় কণার প্যাস আদর্শ প্যাস হিসেবে আচরণ করে?
(ক) নিম্ন তাপ ও উচ্চ তাপমাত্রা
(খ) উচ্চ তাপ ও নিম্ন তাপমাত্রা
(গ) নিম্ন তাপ ও নিম্ন তাপমাত্রা
(ঘ) উচ্চ তাপ ও উচ্চ তাপমাত্রা

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overall order of the reaction is equal to 1 1 2 4 b order of the reaction with respect to acetaldehyde is 3 2 and overall order is also 3 2

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