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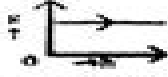
১০. পৃথিবীর কেন্দ্রে থেকে পৃথিবীর পৃষ্ঠের দিকে পড়ন্তীল বস্তুটির উপর অভিকর্ষীয় ত্বরণের সর্বোচ্চ মান কতটি?



(ক)



(গ)



(খ)



১৪. কৃত্রিম উপগ্রহের পর্যায়কাল কত?
(ক) ১২ ঘণ্টা
(গ) ১ মাস

(খ) ২৪ ঘণ্টা
(ঘ) ১ বছর

১৫. পৃথিবী ১৬.৫ মিলে এবং সূর্য ৪৪ মিলে দূরত্বে একবার প্রদক্ষিণ করে, সূর্য থেকে পৃথিবীর গড় দূরত্ব $1.5 \times 10^{11} \text{ m}$ হলে সূর্য থেকে বুধের গড় 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. ধ্রুতি বস্তু মতো দ্রুত তিনগুন হলে মহাকর্ষীয় বল হবে—



(ক) $\frac{1}{9}$ গুন

(খ) $\frac{1}{3}$ গুন



(গ) ৩ গুন

(ঘ) ৯ গুন

১৭. নিচের কোন রাসিটি অ্যামোনিয়াম রাসি?
(ক) বিকৃতি
(খ) পিড্রাস
(গ) ইডাস ওপাক
(ঘ) পিড্রাস ওপাক

১৮. তরঙ্গকালে পালনের অনুপাত এর মান—
(ক) -১ থেকে ০.৫
(খ) ০.৫ থেকে ১
(গ) -১ থেকে +১
(ঘ) ০.৫ থেকে ১.৫

১৯. নিচের কোনটির সর্বশোষণ ক্ষমতা দ্বিতীয়শ্রেণী?
(ক) সীসা
(খ) তামা
(গ) নিকেল
(ঘ) আলুমিনিয়াম

২০. একটি সরলসোলাকে কার্যকরী সৈরী তিনগুন করে পৃথিবীর কেন্দ্রে নিয়ে গেলে এর ঘোলনকাল—
(ক) পূর্ণ হবে
(খ) একই থাকবে
(গ) $\sqrt{3}$ গুন হবে
(ঘ) অসীম হবে

২১. একটি সরল ছন্দিত স্পন্দনে সর্বোচ্চ কালের সমীকরণ

$$y = 10 \sin \left(12\pi - \frac{\pi}{6} \right) \text{ m, কালের সর্বোচ্চ বেশ কত হবে?}$$

(ক) 1440 ms^{-1}

(খ) 120 ms^{-1}

(গ) 12 ms^{-1}

(ঘ) 10 ms^{-1}

২২. তিনটি প্যাস অকুর বেশ ক্রমক্রমে 10 ms^{-1} , 15 ms^{-1} এবং 20 ms^{-1} , এদের মূল গড় দ্রুতবেগ কত?

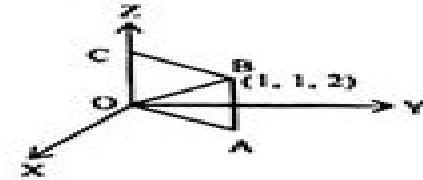
(ক) 3.87 ms^{-1}

(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. সরলকোণীল ত্রুণের ক্ষেত্রে—

- পূর্ণক্ষেত্রে যেটি কাল পূর্ণ নয়
- পরিপূর্ণের ওপর নির্ভর করে না
- ত্রুণটি উদাহরণে আদর্শ পিড্রাস হল

নিচের কোনটি সঠিক?

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

২৫. কোন অবস্থায় বায়বীয় প্যাস আদর্শ প্যাস হিসেবে আচরণ করবে?

(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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Richard Bailey



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cycles/sec blade passing frequency number of times

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