

রাজশাহী বোর্ড

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



(ক)



(গ)



(ঘ)



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 বস্তুর মধ্যে দ্রুতত্ব তিনগুন হলে মহাকর্ষীয় বল হবে—



(ক) $\frac{1}{9}$ গুন

(খ) $\frac{1}{3}$ গুন



(গ) ৩ গুন

(ঘ) ৯ গুন

১৭। নিচের কোন রাসায়নিক পদার্থ বিকৃত্তি?
(ক) বিকৃত্তি
(খ) পানির
(গ) ইথান গ্যাস
(ঘ) পিট্রিক এসিড

১৮। তরঙ্গকতবে পালনের 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 সর্বাধিক ক্ষতিগ্রস্ততা?
(ক) সীসা
(খ) তামা
(গ) নিকেল
(ঘ) অ্যালুমিনিয়াম

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 কত সীমাবদ্ধ?

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

(ক) 1440 ms^{-1}

(খ) 120 ms^{-1}

(গ) 12 ms^{-1}

(ঘ) 10 ms^{-1}

২২। তিনটি প্যাস অকুর বেগ ক্রমান্বয়ে 10 ms^{-1} , 15 ms^{-1} এবং 20 ms^{-1} , এদের মূল গড় দ্রুতবেগ কত?

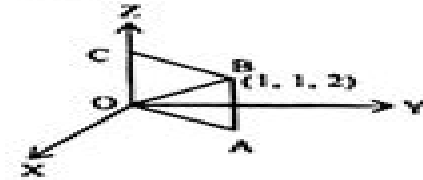
(ক) 3.87 ms^{-1}

(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। সংরক্ষণীয় বলের ক্ষেত্রে—

- পূর্ণক্ষেত্রে যেটি কাজ পূর্ণ নয়
- পরিপথের ওপর নির্ভর করে না
- প্রকৃতি উপস্থাপন আদর্শ পিট্রিক হল

নিচের কোনটি সঠিক?

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

২৫। কোন অবস্থায় বায়ুর 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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Russell Tytler



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