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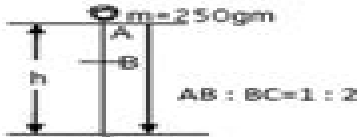
(উত্তীর্ণ - নম্বর ৬০.১৬)

সময়: ১ ঘণ্টা

পূর্ণমান: ৫০

অনুচ্ছেদ ২. এই প্রশ্নের উত্তর দাও

১. একটি বস্তু A কিছু থেকে মুক্তভাবে ভূমিতে পড়ছে।



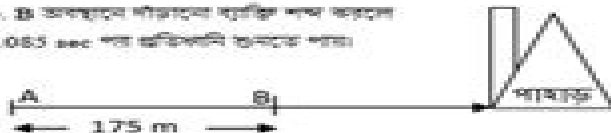
বস্তুটি মুক্তভাবে ছেড়ে দিলে B বিন্দুতে আসতে 10 sec সময় লাগে।

- ক. কর্মক্ষমতা কতক হলে? ১
- খ. ব্যোমবেগে বস্তুটির উপর বলের কারণ ব্যাখ্যা কর। ২
- গ. বস্তুটিতে C বিন্দু থেকে A বিন্দুতে নিচে কৃতচলনের পরিমাপ নির্ণয় কর। ৩
- ঘ. A, B ও C বিন্দুতে বস্তুটির মোট শক্তি এক থাকে। পদার্থবিজ্ঞানে ব্যাখ্যা কর। ৪

২. একটি হাইড্রোলিক প্রেসের বস্তু ও ছোট পিস্টনের ব্যাসের অনুপাত 5 : 1। ছোট পিস্টনের কিছুটা সরানের ফলে বস্তু পিস্টনে 300 N বল অনুভব কর।

- ক. ভর কতক হলে? ১
- খ. কোন বস্তুর পানিতে তলে ও নিমজ্ঞানের কারণ ব্যাখ্যা কর। ২
- গ. ছোট পিস্টনে কি পরিমাণ বল প্রয়োগ করা হয়েছিল? ৩
- ঘ. 'উত্তর পিস্টনে কাজের পরিমাণ সমান' ... পদার্থবিজ্ঞানে বিশ্লেষণ কর। ৪

৩. B অবস্থানে পীড়নো ব্যক্তি শব্দ করলে 1.063 sec পর প্রতিধ্বনি শুনতে পায়।



- ক. তরঙ্গ কতক বেগ? ১
- খ. বেগের তুলনায় বেগের কতক বীজ হওয়ার কারণ ব্যাখ্যা কর। ২
- গ. পাহাড় থেকে A অবস্থানে পীড়নো ব্যক্তির দূরত্ব নির্ণয় কর। ৩
- ঘ. A অবস্থানে পীড়নো ব্যক্তি উক্ত শব্দের প্রতিধ্বনি শুনতে পায়ের বীজ পদার্থবিজ্ঞানে ব্যক্তি পাও। ৪

কর্মক্ষমতা - ১০

নিচের উদাহরণটি পড়ে ১ ও ২ নং প্রশ্নের উত্তর দাও -

একজন ব্যক্তি 18 মি পানির একটি কুপের কাছের পানিতে শব্দ করল।

১. ০°C তাপমাত্রার সর্বনিম্ন কত গভীরতা কমালে সে প্রতিধ্বনি শুনতে পাবে?

- ক. 34.6 cm খ. 18 cm গ. 1.5 cm ঘ. 16.6 cm

২. 20°C তাপমাত্রার প্রতিধ্বনি শুনতে তার কত সময় লাগবে?

- ক. 0.1s খ. 0.104s গ. 0.108s ঘ. 1.8s

BASIC STUDY

৬. কোন মাধ্যমে শব্দের বেগ সবচেয়ে কম?

- ক. ফেরোসিন খ. পানি গ. বাতাস ঘ. পোড়া

৭. বাতাসের প্রবাহ নিয়ে তৈরি কন্যাস্র কোমটি?

- ক. হারমেনিয়াম খ. বেল্লো গ. তেল ঘ. তাম্বা

৮. পরমাণু শব্দের বেগ কত?

- ক. 1284 m/s খ. 1450 m/s গ. 1493 m/s ঘ. 12000 m/s

৯. পেরোসের উত্তরণ সূত্রের হয় -

- i. তপ ব্যতনের জন্য
- ii. বল ব্যতনের জন্য
- iii. যান্ত্রিক সূর্যের বেশি পাওয়ার জন্য

নিচের কোনটি সঠিক?

- ক. i, ii খ. i, iii গ. ii, iii ঘ. i, ii, iii

১০. 30 CM^3 আয়তনে পানির ভর কত?

- ক. 10g খ. 20g গ. 25g ঘ. 50g

১১. 5 CM^2 ক্ষেত্রফলের উপর 2 নিউটন বল প্রয়োগ করলে তাপ কত?

- ক. 0.4Pa খ. 2.5Pa গ. 10Pa ঘ. 4000Pa

১২. ঘনত্বের মাত্রা কোনটি?

- ক. L^3 খ. M^3L^3 গ. ML^3 ঘ. ML^{-3}

১৩. বিচ্ছিন্নত্বক ওনালের একক কোনটি?

- ক. N_{m} খ. N_{m^2} গ. N_{m^3} ঘ. N_{m^4}

নিচের উদাহরণটি পড়ে ১১ ও ১২ নং প্রশ্নের উত্তর দাও -

৪.9 KW এর একটি মোটর ব্যবহার করে 20 s এ একটি বস্তুকে 40 মি উপরে উঠাতে 50000 J শক্তি ব্যবহার করা হয়।

১১. বস্তুটির ভর কত?

- ক. 122.45 kg খ. 150kg গ. 300.28kg ঘ. 355.10kg

১২. মোটরটি -

- i. প্রস্তুত শক্তি 98000 J
- ii. কর্মক্ষমতা 48.95%
- iii. কাজ করার হার 2400 W

নিচের কোনটি সঠিক?

- ক. i, ii খ. i, iii গ. ii, iii ঘ. i, ii, iii

১৩. কর্মতার মাত্রা কোনটি?

- ক. $ML^{-2}T^{-2}$ খ. $ML^{-2}T^{-3}$ গ. MLT^{-2} ঘ. $ML^{-2}T^{-2}$

১৪. 70kg ভরের একজন ব্যক্তি 5 মিনিটে 100 m উঁচু পাহাড়ে উঠে, তার কর্মতা কত ওয়াট?

- ক. 3500 খ. 1400 গ. 228.67 ঘ. 0.34

১৫. একটি উত্ত্রনের কর্মক্ষমতা 45%। এতে 90 J শক্তি সরবরাহ করলে তার কতটুকু কাজ সম্পন্ন হবে?

- ক. 80J খ. 49.51J গ. 45J ঘ. 40.51J

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A Gutmann



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