

Practice test 2b

Question 1

Find the natural frequency of vibration of the salt molecule NaCl given its effective mass of 13.5 atomic mass units (u) and a spring constant of 100 N/m. (1 u = 1.66×10^{-27} kg)

- ☐ ~100 Hz
- ☐ $\sim 4.3 \times 10^{12}$ Hz
- ☐ ~7 Hz
- ☒ $\sim 10^{13}$ Hz
- ☐ $\sim 6.6 \times 10^{13}$ Hz
- ☐ ~0.4 Hz

$$\omega = \sqrt{k/m}, f = (1/2\pi)\sqrt{k/m}.$$

Here $m = 13.5 \text{ u}$ and $k = 100 \text{ N/m}$.
 $1 \text{ u} = 1.66054 \times 10^{-27} \text{ kg}$.

Question 2

A simple pendulum consists of a point mass m suspended by a massless, unstretchable string of length L . If the mass is doubled while the length of the string remains the same, the period of the pendulum

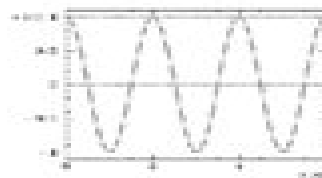
- ☐ becomes greater by a factor of square root of 2.
- ☒ remains unchanged.
- ☐ becomes twice as great.
- ☐ becomes 4 times greater.
- ☐ decreases.

$$T = 2\pi\sqrt{L/g}$$

Question 3

We observe the harmonic motion of an object. Its **position as a function of time** shown in the graph below is given by $x = 1^* \cos(\pi t)$, where x is measured in meter and t is measured in seconds. What are the amplitude (A), the period (T), and frequency (f) of the motion?

- ☒ A: 1 m, T: 2 s, f: 0.5 Hz
- ☐ A: 2 m, T: 2 s, f: 0.5 Hz
- ☐ A: 2 m, T: 2 s, f: 2 Hz
- ☐ A: -1 m, T: 1 s, f: 1 Hz
- ☐ A: 1 m, T: 1 s, f: 1 Hz



Read the graph:
 $x(t) = A \cos(\omega t + \phi)$.
 $\omega = 2\pi f = 2\pi/T$.

Question 4

A simple pendulum has a length L of 80 cm. What is its period of small oscillations?

- ☐ 3.5 s
- ☐ 0.56 s
- ☐ 12.25 s
- ☐ 0.045 s
- ☒ 1.8 s

$$T = 2\pi\sqrt{L/g}$$



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