

JEE MAIN OSCILLATIONS — ENERGY IN SHM — PYQS

Max. Marks: 8

Questions: 2

Section A (MCQ) — 1 question

Q.1 The kinetic energy of a simple harmonic oscillator is oscillating with angular frequency of 176 rad/s. The frequency of this simple harmonic oscillator is _____ Hz. [take $\pi = \frac{22}{7}$]

[JEE Main 2026 (Online) 21st January Evening Shift]

- (1) 88 (2) 14 (3) 28 (4) 176

Scan or tap for the full solution



Section B (Numerical) — 1 question

Q.2 The displacement of a particle, executing simple harmonic motion with time period T , is expressed as $x(t) = A \sin \omega t$, where A is the amplitude. The maximum value of potential energy of this oscillator is found at $t = T/2\beta$. The value of β is ____.

[JEE Main 2026 (Online) 28th January Morning Shift]

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ANSWER KEY

Section A (MCQ) — 1 question

[illegible]

Section B (Numerical) — 1 question

[illegible]