

JEE MAIN OSCILLATIONS — FORCE LAW FOR SHM — PYQS
Max. Marks: 4
Questions: 1
Section A (MCQ) — 1 question

- Q.1** A cylindrical block of mass M and area of cross section A is floating in a liquid of density ρ and with its axis vertical. When depressed a little and released the block starts oscillating. The period of oscillation is _____

[JEE Main 2026 (Online) 24th January Morning Shift]

- (1) $2\pi\sqrt{\frac{\rho A}{Mg}}$ (2) $\pi\sqrt{\frac{2M}{\rho Ag}}$
 (3) $2\pi\sqrt{\frac{M}{\rho Ag}}$ (4) $\pi\sqrt{\frac{\rho A}{Mg}}$

Scan or tap for the
full solution


ANSWER KEY

Ques.	1										
Ans.	3										