

JEE MAIN OSCILLATIONS — PERIODIC AND OSCILLATORY MOTION — PYQS

Max. Marks: 4
Questions: 1

Section A (MCQ) — 1 question

Q.1 Match List-I with List-II.

List-I		List-II	
A.	$\sin^2 \omega t$	I.	Periodic with time period $T = \frac{\pi}{\omega}$ but not simple harmonic motion (SHM)
B.	$\sin^3(2\omega t)$	II.	Periodic with time period $T = \frac{2\pi}{\omega}$ but Not SHM
C.	$\sin(\omega t) + \cos(\pi\omega t)$	III.	Periodic with time period $T = \frac{\pi}{\omega}$ and SHM
D.	$\cos \omega t + \cos 2\omega t$	IV.	Non-periodic

Choose the correct answer from the options given below : [JEE Main 2026 (Online) 5th April Evening Shift]

(1) A-III, B-I, C-IV, D-II (2) A-II, B-I, C-III, D-IV

(3) A-III, B-II, C-IV, D-I (4) A-II, B-I, C-IV, D-III

Scan or tap for the full solution



ANSWER KEY

Ques.	1									
Ans.	1									