

JEE MAIN MOTION IN A STRAIGHT LINE — ACCELERATION — PYQS

Max. Marks: 4

Questions: 1

Section A (MCQ) — 1 question

Q.1 A particle moves along the x-axis and has its displacement x varying with time t according to the equation:

$$x = c_0(t^2 - 2) + c(t - 2)^2$$

where c_0 and c are constants of appropriate dimensions.

Then, which of the following statements is correct?

[JEE Main 2025 (Online) 3rd April Evening Shift]

- (1) the acceleration of the particle is $2(c + c_0)$
- (2) the acceleration of the particle is $2c_0$
- (3) the acceleration of the particle is $2c$
- (4) the initial velocity of the particle is $4c$

Scan or tap for the full solution



ANSWER KEY

[illegible]