

Max. Marks: 4

Questions: 1

Q.1 A uniform disc of radius R and mass M is free to oscillate about the axis A as shown in the figure. For small oscillations the time period is _____. (g is acceleration due to gravity)

A diagram of a wheel of radius R rotating with angular velocity ω . The center is O , the top point is A , and the bottom point is M . A horizontal line passes through A .

- (1) $2\pi\sqrt{\frac{5R}{4g}}$ (2) $2\pi\sqrt{\frac{2R}{3g}}$
(3) $2\pi\sqrt{\frac{3R}{2g}}$ (4) $2\pi\sqrt{\frac{3R}{g}}$

Scan or tap for the full solution

[illegible]