

Rotational Mechanics

Question Paper

Level	Pre U
Subject	Physics
Exam Board	Cambridge International Examinations
Topic	Rotational Mechanics
Booklet	Question Paper

Time Allowed: 2 minutes

Score: /1

Percentage: /100

Grade Boundaries:

- 1 The diagram shows the turbine of a wind generator.



The tip of one blade moves in a circle of diameter 64.0 m.

The rotor blades make 300 revolutions per hour.

What is the centripetal acceleration of the tip of the rotor blades?

- A 0.26 ms^{-2}
- B 4.39 ms^{-2}
- C 17.5 ms^{-2}
- D $1.58 \times 10^4 \text{ ms}^{-2}$

Space for working