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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:

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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?

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

Space for working