

- 18** A wind turbine has blades that sweep an area of 2000 m^2 . It converts the power available in the wind to electrical power with an efficiency of 50%.

What is the electrical power generated if the wind speed is 10 m s^{-1} ? (The density of air is 1.3 kg m^{-3} .)

- A** 130 kW **B** 650 kW **C** 1300 kW **D** 2600 kW

- 19** The diagram shows a wheel of circumference 0.20 m . A rope is fastened at one end to a force