

Answer sheet: Renewable energy

Student number:	Name:
Team:	Group:

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IESO2016

Question 0

- Q. 0-1 Solar radiation absorbed by the solar panel system per second per unit area.
- Q. 0-2 electric power generation by the solar panel system per second
- Q. 0-3 rotation of blade of the wind turbine per minute

Question 1

- 25 Q. 1-1 (answer of Q 0-1) \times 365.4 (w)
- 25 Q. 1-2 $\frac{\text{answer of Q 0-2}}{\text{answer of Q 1-1}} \times 100$ (%)
- The values should be rounded off to the first decimal place

Question 2

- 25 Q. 2-1 $0.5 \times 1.2 \times 3.14 \times (33.6)^2 \times V^3$
- V is given from the "conversion table"
- 25 Q. 2-2 electric power generation
- answer of Q 2-1
- This is given from the "conversion table"

The answer should be rounded off to the first decimal place.