

Answer sheet: Meteorological Observation

/100

Student number:	Name:
Team:	Group:

Question 0

Q. 0-1 downward solar radiation at A (W/m²)

Q. 0-2 upward solar radiation at A (W/m²)

Q. 0-3 downward solar radiation at B (W/m²)

Q. 0-4 upward solar radiation at B (W/m²)

Q. 0-5 Temperature at A (degC)

Q. 0-6 Temperature at B (degC)

Question 1

/20 Q. 1-1 calculate $\frac{\text{upward radiation at A}}{\text{downward radiation at A}}$

/20 Q. 1-2 calculate $\frac{\text{upward radiation at B}}{\text{downward radiation at B}}$

/10 Q. 1-3 a **b** c d



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Circle your chosen answer. Example: a **b** c d

Question 2

/20 Q. 2-1 calculate $5.67 \times 10^{-8} \times (273.15 + T_A)^4 = 5.67 \times \left(\frac{273.15 + T_A}{100}\right)^4$
using a simple calculator

/20 Q. 2-2 calculate $5.67 \times 10^{-8} \times (273.15 + T_B)^4 = 5.67 \times \left(\frac{273.15 + T_B}{100}\right)^4$

/10 Q. 2-3 a b c **d**

Circle your chosen answer. Example: a **b** c d