

Question 1: Water at 20°C falls from a height of 854 m. If the whole energy is used in increasing the temperature, find out the final temperature.
Specific heat of water is 4200 J/K kg .

Given that

$$T_1 = 20^{\circ}\text{C} = 20 + 273 = 293 \text{ K}$$

$$\text{height} = h = 854 \text{ m}$$

$$\text{Specific heat of water} = 4200 \text{ J K}^{-1} \text{ kg}^{-1}$$

$$\text{Final temperature} = T_2 = ?$$

$$\text{P.E} = mgh \quad \text{--- (1)}$$

Solution:

We know that

$$\Delta Q = cm \Delta T \quad \text{--- (2)}$$

Whole energy is used in increasing the temperature (Given)

$$\Delta Q = \text{P.E}$$

From (1) and (2)

$$cm \Delta T = mgh$$

$$c \Delta T = gh$$

$$c (T_2 - T_1) = gh$$

$$T_2 - T_1 = \frac{gh}{c}$$

$$T_2 = \frac{gh}{c} + T_1$$

$$= \frac{9.8 \times 854}{4200} + 293$$

$$= \frac{8369.2}{4200} + 293 = 1.99 + 293$$

$$T_2 = 294.99 \text{ K} = 295 - 273^{\circ}\text{C}$$

$$T_2 = 22^{\circ}\text{C}$$

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