10 An object was thrown so that it followed the path shown. Assume drag forces were negligible.

The object was thrown with an initial vertical component of velocity *u*. The time taken to reach maximum height is *t*.

Which of the following could **not** be used to determine the maximum vertical height *s* reached by the object?

☒   **A** $s = ut - \dfrac{1}{2} gt^2$

☒   **B** $s = ut$

☒   **C** $s = \dfrac{1}{2} ut$

☒   **D** $s = \dfrac{u^2}{2g}$

(Total for Question 10 = 1 mark)