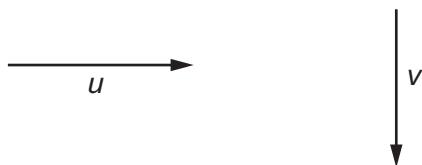**1** Which unit is an SI base unit?

    A ampere

    B coulomb

    C degree Celsius
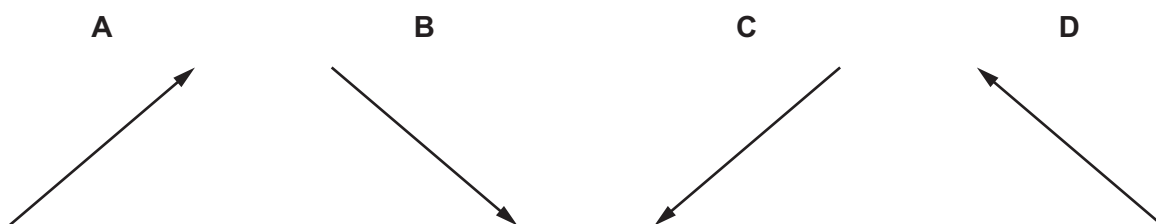
    D gram

2 Which of the following could have the same units as force?

    A $\dfrac{\text{energy}}{\text{distance}}$

    B $\dfrac{\text{energy}}{\text{time}}$

    C momentum × distance

    D momentum × time

3 The velocity of an object changes from an initial velocity u to a final velocity v. The vectors represent these velocities.

Which single vector represents the change in velocity of the object?

    A   **B**   **C**   **D**

4 An object is moving with initial velocity u. The object then moves with uniform acceleration a for time t until it reaches final velocity v.

Which equation describes the motion of the object?

    A $u = v - 2at$ **B** $u = v - at$ **C** $v = u + at^2$ **D** $v = u + 2at^2$