In a particular radioactive decay, there is a mass decrease equivalent to 0.05 u.

Which of the following expressions gives the energy released in MeV?

 $\mathbf{B} \quad \frac{0.05 \times 1.67 \times 10^{-27} \times \left(3 \times 10^{8}\right)^{2}}{1.6 \times 10^{-19}}$

 $C \quad \frac{0.05 \times 1.66 \times 10^{-27} \times (3 \times 10^8)^2}{1.6 \times 10^{-13}}$

(Total for Question 6 = 1 mark)