

- 11** A stationary object is released from a distance $6R$ from the surface of the Earth which has radius R and mass M .

Which one of the following expressions gives the speed of the object on hitting the Earth?

A $\sqrt{\frac{GM}{R}}$

B $\sqrt{\frac{GM}{5R}}$

C $\sqrt{\frac{12GM}{7R}}$

D $\sqrt{\frac{5GM}{3R}}$