

12 A satellite orbiting the Earth moves to an orbit further away from the Earth, such that its gravitational potential energy increases **by** E . By how much does its kinetic energy changes?

A It increases by E .

B It decreases by E .

C It increases by $\frac{E}{2}$.

D It decreases by $\frac{E}{2}$.

13 Two vessels A and B of volume V and $8V$ respectively are connected by a tube of negligible volume