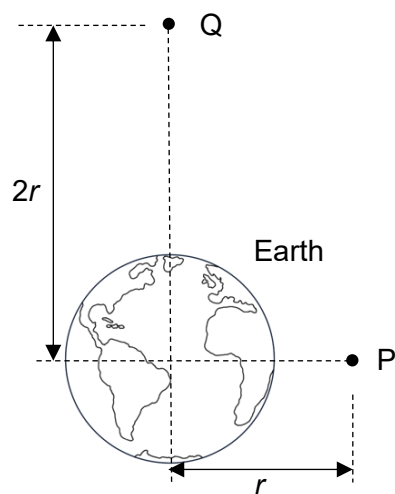


- 10 P and Q are two points above Earth's surface at distances r and $2r$ respectively from the centre of the Earth.



The gravitational potential at P is -800 kJ kg^{-1} . What is the gain in gravitational potential energy of a 2 kg mass when it is moved from P to Q?

- A** - 400 kJ **B** - 200 kJ **C** 400 kJ **D** 800 kJ