

- 13 A meteorite falls freely towards the centre of an isolated spherical planet of radius R . When it reaches the surface of the planet, its acceleration is g_s .

What is its acceleration when at a height $2R$ above the surface?

A $\frac{1}{9} g_s$

B $\frac{1}{4} g_s$

C $\frac{1}{3} g_s$

D $\frac{1}{2} g_s$

