

- 5 The gravitational field strength on the surface of Mercury is  $g_M$ .  
Callisto, a moon of Jupiter, has the same radius as Mercury but only one third of its density.

What is the gravitational field strength on the surface of Callisto?

☐ A  $\frac{g_M}{9}$

☐ B  $\frac{g_M}{3}$

☐ C  $3g_M$

☐ D  $9g_M$

(Total for Question 5 = 1 mark)