6. A satellite of mass 620 kg is placed into an Earth orbit of radius 23 000 km.

The mass of the Earth is 6.0×10^{24} kg.

The gravitational force that the satellite experiences from the Earth in this orbit is

A 4.7×10^{2} N

B 4.7×10^{8} N

C 1.1×10^{10} N

D 1.1×10^{13} N

E 6.9×10^{13} N.