

- 14** An astronaut with a mass of 60 kg works on a geostationary satellite that is 3.59×10^7 m from the surface of Earth. The mass and radius of Earth are given as 6.0×10^{24} kg and 6400 km respectively.

What is the gravitational force acting on the astronaut?

A 13.4 N

B 5.86 N

C 589 N

D 600 N