

- 20** Two planets of mass m and M are separated by a distance R between their centres of mass. The gravitational force of attraction between the planets is P .

Which expression shows a correct relationship between m , M , R , P and the gravitational constant G ?

A $G = \frac{mM}{RP}$ **B** $P = \frac{GmM}{R}$ **C** $Gm = \frac{R^2P}{M}$ **D** $GR^2P = mM$

- 21** A satellite is in geostationary orbit around the Earth