

## QUES 02:-

How is the gravitational force between two point masses affected when they are dipped in water keeping the separation between them the same?

**Sol.** The Newton's Universal law of gravitational force of attraction ( $F$ ) between two bodies of masses  $m_1, m_2$  separated by distance  $r$  is  $F = \frac{Gm_1m_2}{r^2}$

$G$  does not depend upon the medium. So force of attraction does not change if the masses are kept in water or any other medium.