

Numericals

Practice. Learn. Succeed

Sub : Science

Grade: IX

Date:

Name:

ID No.....

1. Calculate the gravitational force between two objects of masses 10 kg and 20 kg at a separation of 5 m.

2. Find the gravitational force between two protons kept at a separation 1 femtometre. The mass of proton is 1.67×10^{-27} kg and 1 femtometre = 10^{-15} m.

3. The gravitational force on a body of mass 60 kg is 588 N. If mass of earth is 6×10^{24} kg and radius of earth is 6.4×10^6 m; find the value of G.

4. The mass of earth is 6×10^{24} kg and that of moon is 7.4×10^{22} kg. If the distance between the earth and the moon is 3.84×10^5 km, calculate the force exerted by the earth on the moon.
