

- (iii) Tension in a string/rope.
- (iv) Forces due to a spring.

Some of the salient features of electromagnetic forces are:

1. These forces may be attractive or repulsive. Like charges repel each other and unlike charges attract each other.
2. These forces are governed by Coulomb's law, which are similar to Newton's law of gravitation.
3. They obey inverse square law.
4. Electrostatic forces (between two protons) are 10^{36} times stronger than gravitational forces between them, for any fixed distance.
5. They operate over distances which are not very large.
6. They are also conservative forces.
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8. The field particle of electromagnetic force is photon, which carries no charge and has zero rest mass.

(d) Strong Nuclear Forces:

The forces that bind the neutrons and protons together in a nucleus are called the strong nuclear forces.

Some of the salient features of nuclear forces are:

1. Nuclear forces are the strongest forces in nature. They are 10^{38} times stronger than gravitational forces, 10^2 times stronger than electrostatic forces and 10^{13} times stronger than the weak forces.