

Class – XI

Physics

## **Chapter five: Laws of Motion**

**1. Write down Newton's three laws of motion?**

Ans: Refer to textbook page no 91,94 & 97.

**2. State Newton's second law of motion. From this derive the relation between force and acceleration.**

Ans: Refer to textbook page no 94 &95.

**3. Write down the laws of conservation of momentum.**

Ans: Laws of conservation of momentum states that "For two or more bodies in an isolated system acting upon each other, their total momentum remains constant unless an external force is applied to them".

**4. What is friction?**

Ans: Friction is the force resisting the relative motion of solid surfaces, fluid layers and material elements sliding against each other.

**5. What are the different types of friction?**

Ans: There are four types of friction. They are static, sliding, rolling and fluid friction.

**Homework :- Ncert textbook exercise question no 5.1, 5.2, 5.3, 5.5, 5.6, 5.7, 5.19 and 5.23.**