

13.	Calculate the change in momentum of a car of mass 1500 kg when its speed increases from 18 km/h to 90 km/h.
14	Define momentum and give its SI unit.
	Three mark questions
15.	A car of mass 1500kg travelling at 25 m/s collides with another car 3 of mass 1000kg travelling with a speed 15 m/s in the same direction. After the collision the velocity of car A becomes 20 m/s.Calculate the velocity of car B after the collision.
16.	State Newton's Second law of motion. Obtain its mathematical expression.
17.	Prove that initial momentum of a system of two colliding masses is equal to their final momentum.
18.	A body of mass 2 kg , initially moving with a veolocity of 10 m/s collides with another body of mass 5 kg at rest. After collision the velocity of the first body becomes 1 m/s. Find the velocity of the second body.
19.	State Newton's third law of motion .Explain why a gun recoils after firing with much less velocity than bullet?
20	A constant retarding force of 200 N is acting on a body of mass50 kg moving initially with the speed of 20 m/s. How long the body does takes to stop?