

# SOBTIS PUBLIC SCHOOL

## GREEN PARK, BAREILLY

### PHYSICS

#### WORK SHEET

#### CLASS-IX

Q.1 What is the acceleration of the body moving with uniform velocity.

Q.2 What is the S.I unit of retardation.

Q.3 Define motion. What do you mean by the term uniform motion and non uniform motion.

Q.4 A car is moving along a straight line at a steady speed. It travels 150m in 5 sec.

a.] What is its average speed.

b.] how far does it travel in 1 sec.

c.] how far does it travel in 6 sec.

d.] how long does it take to travel 240m.

Q.5 A racing car has a uniform acceleration of  $4\text{m/sec}^2$ . What distance will it cover in 10 sec after start.

Q.6 A car travelling at  $20\text{km/h}$  speeds up to  $60\text{ km/h}$  in 6 sec. what is its acceleration.

Q.7 Derive all the equation of motion by graphical method.

Q.8 Define uniform circular motion.