

### Worksheet for Subject - Physics: Current Density

### Class- XII

- Q1. If 1 million electron pass in 1 millisecond through the area of cross section of a conductor Then what will be the current flow through the conductor?
- Q2. An electron is moving in a orbit of radius  $5 \times 10^{-11}$  M in hydrogen atom with velocity of  $2.2 \times 10^6$  m/sec then determine the current
- Q3. The area of cross section of a wire is  $3 \times 10^{-4}$  m<sup>2</sup>. A current of 4.8 amp is flowing through the wire .determine the current density