



## GRADE XI

## PHYSICS

## UNITS AND MEASUREMENTS

1. The radius of the sun is 696 000 000 m. Express it in scientific notation (in powers of 10)
2. How many significant figures are therein (i) 750 (ii) 0.00320 ?
3. If  $x = a + bt^2$ , where  $x$  is in metres and  $t$  in seconds, find the units of  $a$  and  $b$ .
4. State the number of significant figures in (a) 0.007 m (b)  $2.67 \times 10^{-24}$  kg
5. If  $x = 2at - 5bt^2$ , where  $x$  is in metres and  $t$  in seconds, find the dimensions of  $a$  and  $b$ .