

**MIDULE 3/3**

**CHA-12- EXPONENTS AND POWERS**

**WORK SHEET-3/3**

**I) Express the following numbers in standard form**

**a) 4500000      b) 75600000000**

**c) 4500000000000      d) 800000000**

**11) Express the following numbers in standard form**

**a)0.00000004      b)0.000000007**

**c) 0.000000076      d) 0.00000000000089**

**III) Express the following in usual form**

**a)  $4.5 \times 10^5$       b)  $6.57 \times 10^4$       c)  $2.3 \times 10^7$       d)  $8.957 \times 10^8$**

**e)  $4 \times 10^{-10}$       f)  $4.5 \times 10^{-9}$       g)  $6.75 \times 10^{-7}$       h)  $5.786 \times 10^{-5}$**

**IV) Write all facts given bellow in standard form**

**1)The distance from the Earth to the Sun is 149,600,000,000 m**

**2)The speed of light is 300,00,000 m/sec**

**3)Thickness of class VII Mathematic book is 20mm**

- 4) The average diameter of Red blood cell is  $0.000007\text{m}$
- 5) The thickness of human hair is in the range  $0.005$  to  $0.01\text{cm}$
- 6) The distance of Moon from the Earth is  $384,467,000\text{m}$  (approx)
- 7) The size of plant cell is  $0.00001275\text{m}$
- 8) Average radius of the Sun is  $695000\text{m}$
- 9) Diameter of wire on a computer chip is  $0.000003\text{m}$

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