Assignment 1

Units and measurnment

Q1 : What is the relation between light and parsec

Q2: Give the order of magnitude of the following

1. Size of an atom
2. Size of galaxy

Q3 How many kg make 1 unified atomic mass unit

Q4 Name the physical quantity that have same dimension

Q5 Give two examples of dimensionless variables

Q6 State the no. of significant figures

1. 0.007 m2
2. 0.2370 gm
3. 2.64 \* 1024 kg
4. 0.230
5. 86400

Q7 Given the relative error in the meaurnment of length 0.02,what is the % error

Q8 Using dimension convert

1. 1newton into dynes
2. 1 erg into joules

Q9 define light year ,Astronomical unit,parsec

Q10 Name the discovery made by scientist Faraday, Chadwick,Hubble,Maxwell,Newton,Bohr

Q11 Give example of dimensional constant and dimensionless constant