Class 11 Physics Chapter 1 Important Questions Units and Measurement

Q.1. What are fundamental units?
Ans. Fundamental units are those units, which can neither be derived from one another nor can they be further resolved into any other units.

Q.2. What are derived units?
Ans. The units of all such physical quantities, which can be expressed in terms of the fundamental units of mass, length and time are called Derived units.

Q.3. What is meant by unit?
Ans. The unit of a physical quantity is a standard of the same kind choose and in order to measure that quantity.

Q.4. What should we know in order to measure a physical quantity?
Ans. It's your net and the number of times the unit is contained in the physical quantity.

Q.5. Is the measure of a physical quantity dependent upon the choice of unit?
Ans. If the size of the unit used to measure the physical quantity is bigger, the numerical value of the physical quantity is smaller and vice-versa. However, the measure of a physical quantity remains the same.

Q.6. How many nanometre are there in one metre?
Ans. Now, 1 nanometre = 10^{-9} m Therefore, 1m = 10^{9} nm.

Q.7. How many fermi are there in one metre?
Ans. Now, 1 fermi = 10^{-15} m Therefore, 1 m = 10^{15} f.

Q.8. Is light year is a unit of time?
Ans. No, it is a unit of distance.