HW
7.7.21

Extra Q

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a) Describe the parts of electronic Balance?

Ans- The three parts of electronic balance is :-

1) The structure :- It is load bearing part which bears the load of the object and transferes to the load cell.

2) The load cell :- It converts the load in the structure into electrical signals.

3) The signal conditioner - It converts the electrical signals from the load cell to display the mass.

b) What are standard weights?

Ans- Standard weights are used to measure weight like 20 kg, 10 kg, 5 kg, 2 kg, 1 kg etc. There are smaller units too for mass like 500 g, 200 g, 150 g, 100 g, 50 g, 10 g etc.

c) Give some examples on what do you mean by mean solar day?

Ans- When the earth rotates around its own axis is called as a solar day. When there are 365 days of a solar day in a year, it is called as a mean solar day.

Ex- 1 s is defined as $\frac{1}{86400}$ part of a mean solar day so,

$1\,s = \frac{1}{86400} \times$ one mean solar day

d) The unit of time in MKS and CGS system is second(s).

e) How can you measure short time interval?

Ans. We can measure short time interval using devices such as stop watch and stop clock.