

Q. Describe the parts of the electronic balance.

Ans → The parts of the electronic balance are: -

(i) The structure:

It is the load bearing part which transfers the load of the object to the load cell.

(ii) The load cell:

It converts the load (i.e. force) into electrical signals.

(iii) The signal conditioner:

It is the electronic part which processes the electrical signal and displays the mass.

Q. What are standard weights? Give some examples.

Ans → Standard weights are used to measure the mass of an object.

Examples: 1 kg, 500 gm, 250 gm, 200 gm etc.

H.W

Q. What do you mean by mean solar day?

Ans → The mean of 365 solar days in a year is called the mean solar day.

Q. The unit of time in M.K.S and C.G.S system is second.

Q. How can you measure short time interval? Explain.

Ans → • We can measure short time interval by using stop clock or a stop watch.

- Stop watch has arrangements to start, to stop and to reset at zero.
- An electronic stop watch is more accurate than a mechanical stop watch.
- It can measure time intervals accurately up to 0.01 s.
- It doesn't have a minute or a second arm.
- On the other hand it has the digital display screen.