

1 Describe the parts of electronic balance.

- Ans:-
- The structure: It is the load bearing part which transfers the load of the object to the load cell.
 - The load cell: It converts the load (i.e. force) into electrical signals.
 - The signal conditioner: It is the electronic part which processes the electrical signal and displays the mass.

2: What are standard weights? Give some examples.

Ans:- To measure the mass of an object, standard weights are used. Ex - Standard weights of 20 kg, 10 kg, 5 kg, 200 g, 50 g etc.

3. ~~What~~ What do you mean by mean solar day?

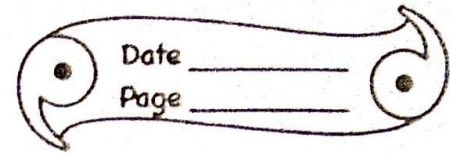
Ans:- The mean of 365 solar days in a year is called the mean solar day. We measure time in terms of the mean solar day.

4. The unit of time in MKS and CGS system is ~~sec~~ second.

5. How can you measure short time interval?

Ans:- The short time interval of an event is measured with the help of a stop clock or a stop watch. They have arrangements 'to start', 'to stop' and 'to reset at zero'.

An electronic stop watch is more ~~precise~~ accurate than a mechanical stop watch. It can measure ~~the~~ time intervals accurately up to 0.01 s. It does not have a minute or second arm. On the other hand, it has a digital display screen. Such watches are used for measuring the timings of



athletic activities such as time taken
by the athletes to complete a 100m
race.