

Physical quantities and Measurement

1 Describe parts of electronic balance?

Ans An electronic balance has following three parts

1 Structure; It is load bearing part which transfers the load of object to load cell

2 Load cell - It converts the load into electrical signal.

3 Signal conditioner - It is the electronic part which processes electrical signal and displays mass.

2 What ^{are} standard weights?

Ans To measure mass of an object,

standard weights are used. Standard

weights are 20 kg, 10 kg, 5 kg, 2 kg,

1 kg. However smaller weights of

500 g, 200 g, 50 g, 20 g, 10 g, 5 g are

also available.

~~3 Give some example~~

3 What do you mean by mean solar day?

Ans Interval between two instances

of events is called time. We measure

time in terms of the mean solar

day. Solar day is time taken by

Earth to complete rotation about its own axis. The mean of 365 solar days in a year is called mean solar day.

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

5. How can you measure short time interval?

Ans. Short time interval of an event is measured with help of stop clock or a stop watch. They have arrangement to start, to stop and to reset at zero.