100/0/21 B. Short/Long Answer Question 5. Detine one meter, the 3.1 unit of length. State its one multiple and one sub multiple. Ans One meter is defined as the distance travelled hy light in air in 299792458 of a second Multiple of meter = Kilometer Submultiple of meter = centimeter 6. Convert the following quantities as indicated: a) 12 inch = -1 ft 177 - 30.48 cm 20 cm = 0.2 m4.2 m = 490 cm 0.2 Km = 200 m0.2 cm = 2 mmg) 1 yard - 0.91 m

Home Assignment

28.6.2

Q What do you mean by eror of parallax? Ans Erron of parallax To measure the length of an an object with a meter ruler, the ruleris placed with its making marking close to the object. Then the Zero O mark on the ruler is made to coincide with one end of the object. Now the possition of the other end of the object. Now the is read on the ruler. This reading gives the length of the object - But a ruler has some thickness, so while looking at the reading on the scale, we get different readings when the eye is kept at different possition this is called the ever of parallax

Q Explain stepwise how to take measurement of length of an object with a meter scale.

Ans * The scale is placed with its markings close to the object. * Then the zero mark on the scale is made to concide with one end of the object. * The possition of the other end of the object is read on the ruler.

Date_____ Explain stepwise how to take measurement of length of an object with a measuring tape. Ans * The tape is placed with its markings close to the objects. *Then the zero mark on the tape is made to concide with one end of the object. * The position of the other end of the object is red on the tape.