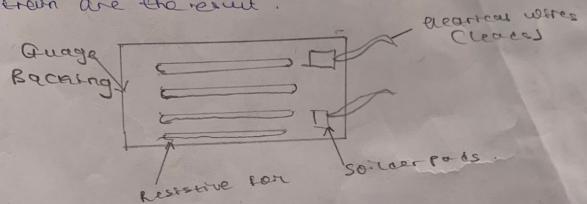
Name: Novorise marachiso Matric 100: 18/210002/063 Department: computer engineering. 1) A sensor tends to convert a Physical attribute to an Medition signal. Biomedical sensors are used to gain the information on body and Pathology. which is a branco of Bromedown engineering. Bromedown sensors are Classiffed theo physical sensor, chemical sensor or biosonsol. An aduator does the opposite it changes on electrical Signal to Physical action. Actuators are used on Manufacteuring apparations such as suchenes, Pumps, motors and values. Appurations Of sensors - Ugdrager based sensor. - fiber Ofthe sensors. Approaltions of actuators. - elearoadtre smort Porymers. super mognetice tubestype actualizing

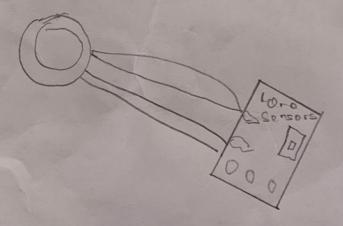
1 1002 Describe with Skebens and examples, or the components of a basse measuring instrument.

A) Strain guage:

A Strainguage le a Sensor Whose restatance varies When appeals force it converts force, pressure concern Weight ette. Into a Ordinge un electrical respectano When can then be measured. When letternal torces are appula to a challowary abject, stress and strown are the result.



b) Force sensor: force sensor load ceus to weagh Obstats and Prevent mashinery from over ladding. 3 Main by pes- tensite, compression sensors



CS Load cou: Load con re a torce Francuser. Me Converse à force such às teneron, Compression pressure or torque onto an eredment system can be measured and standardosed

SKILLS: Examination for Pallor, Finger Clubbing measure now much CHECK-OFF DE 3) Describe case study of two median measurement w MStruments. i) A Digital stadioneter: A human has to stand area while Using a Stade ometer is could be measured in centimeter contine System) C1, 2) and feet and onches Omporiou system) [3-4], on the average males are latter than remails. Several places Such as medical centres, screening centeres, microary express etc The concept of a Stardomder Leurson is based on the Measurement at the pane with the use of an ultresonics eneon n delice controved by a minerantrover. The exadometer device is is be placed at a fired hersy. The Microcontioner being received by an ultrasonie sensor device the sensor limits autround wave ma unear direction towards the obstacle (In the case, the flank on top Of the new o) and awards the reception of echo the time to betteen the Purse emission and echo reception is being derived by the microcordious in the three o module, the derived bring Ct, 'te ruetner aro hald total because the three. needed to the time it takes the pure to hot appeade 3) KUETOTE 9de COLDINECT 2) toreign direct investments 1) WHOW OTHOUGHT FLETTO FOL ACHIBLOGROUND SOUPLE SOUPLE internal and external factors COULTAG. 665LOTE OU

2) passes for made we ment: Scales measure now much something usergns and they do it by measuring how much force, they give you measurement at mass in bit opinions, grams, pounds or whatever three can be a bit contusting but its acceptable because usergnt and mass are connected in a summer way and are often used interchangeby in everyday we. They are two types of scales in measure free!

Nominal scales and ordinal scales.

Momenta scale is the lowest level Of measurements in whosen names Of labels are assigned to objects can be Put into categories, we use norman source in every lay are when we Henry reone as mouse, remales.

Ordinar sames aré structures to norminar scales, en en avegory of scale depresses different uno earn avegory of scale depresses different uno