

Name: Adeniyi Tolulope Ebonyeja
matric no.: 18/eng02/008

Department: Computer Engineering
EEE319 Assignment.

① Sensors for biomedical application:

This can be defined as the ~~press~~ information present on sensor types in a comprehensive and easy to understand format.

Examples:

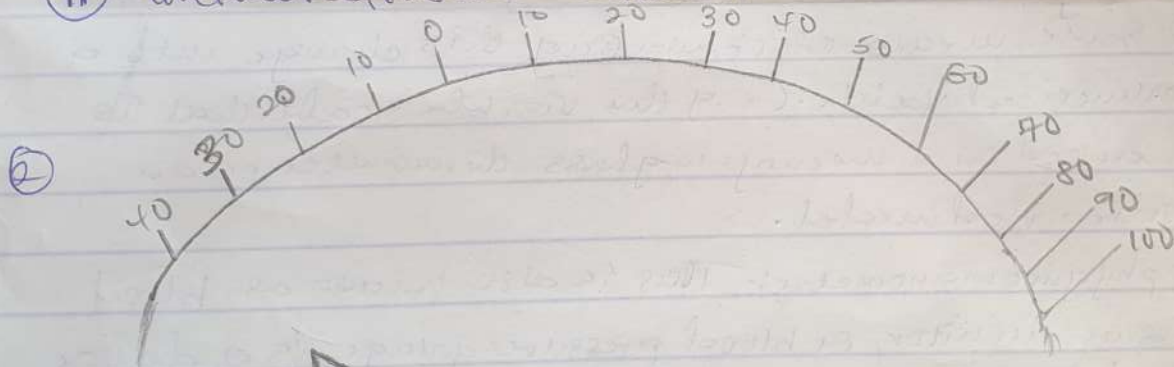
- ① oxygen and carbon dioxide sensor for blood
- ② Respiration sensor

② Actuators for biomedical application:

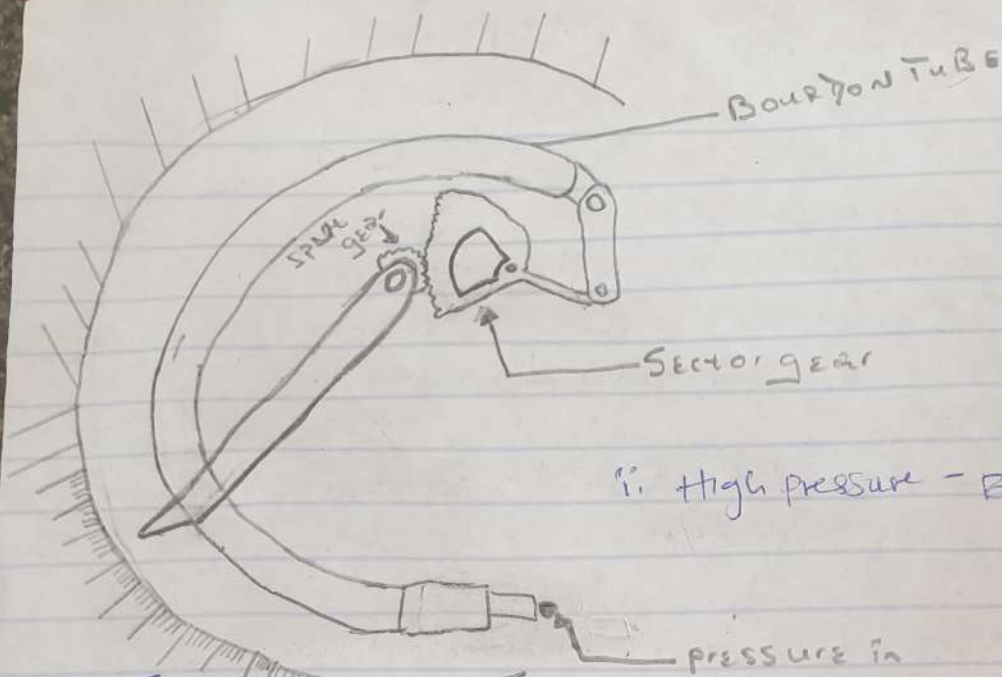
This can be defined as the integrated actuator of all components such as motor, controller, sensors, and communication unit.

Examples

- ① Electromagnetic actuators
- ② Thermoresponsive actuators



① Temperature measurement



i. High pressure - Bourdon tube

② Thermometer: This is a device that measures temperature (the degree of hotness or coldness of an object). A thermometer has two important elements
 i.e. (a) a temperature sensor (e.g. the pyrometric sensor in an infrared thermometer) which some change occurs with a change temperature.
 (b) some means of converting this change into a numerical value (e.g. the visible scale that is marked on a mercury-in-glass thermometer or an infra red model).

- Sphygmomanometer: This is also known as blood pressure monitor, or blood pressure gauge, is a device used to measure blood pressure, composed an inflatable cuff to collapse and then release the artery under the cuff in a controlled manner, and a mercury or aneroid manometer to measure the pressure.