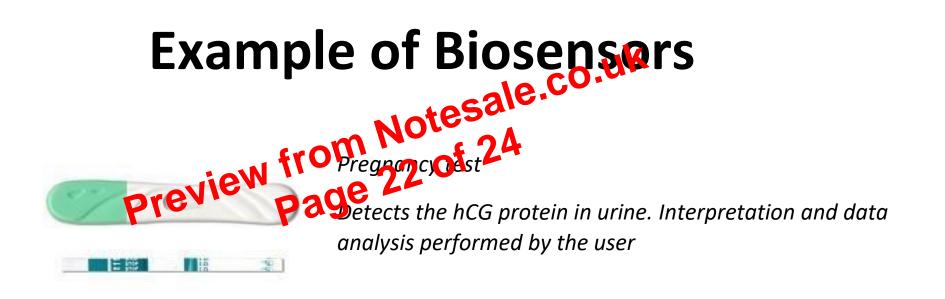
Loprevidetepage 7 of 24 'imits **Required Characteristics of a Biosensor**

- Sensitivity

- Simplicity
- Reliability
- Speed
- Accuracy

- Ease of calibration
- Stability
- for Room \bullet improvement

- Amperometric Biosensor
 Amperometric biosensors are those which measures the reaction of the hylate with enzyme and generate electrons directly or through a mediator.
- Enzyme electrodes are a new type of biosensor which have been designed for the assay of substrates such as urea, amino acid, glucose, alcohol and lactic acid. The enzyme is embedded in thin permeable membrane and produce oxygen, hydrogen, ammonia, carbon dioxide and other small molecules. This is detected by specific sensor.





Glucos monitoring device (for diabetes patients)

Monitors the glucose level in the blood. Interpretation and data analysis performed by a microprocessor.

Example of Biosensors





Infectous disease biosensor from RBS

Data analysis and interpretatoin performed by a microprocessor



Old time coal miners' biosensor Data analysis and interpretation performed by the coal miner.