

الفرقة الرابعة

ت. 19

C.19

مستدرك

University : Menoufia
Faculty : Electronic Engineering
Department : Industrial Electronics and
Control Engineering
Course Name : Applications of control systems
4



Date : 03/04/2019
Time : 1 Hours
No. of pages : 1
No. of Questions : 2
Exam : Midterm Exam

Question No 1 : Temperature Measurement

- What are the types of temperature sensors that you studied?
- What is the principle of operation of each one?
- which one is the best to measure the body temperature? And how is can be interfaced with AVR microcontroller.

Question No 2 : Gas Measurement

- What is the difference between Gas/Smoke & Ethanol Sensors?
- Draw the symbole with the terminal numbers of TGS822 sensor, and explain the use of each one with characteristics?
- Design the interfacing circuit to convert the sensor output to related variable voltage?

Best Wishes
Dr. Ahmed El-Sherbeny
