

ESCUELA SUPERIOR POLITÉCNICA DEL LITORAL
FACULTY OF ELECTRICAL AND COMPUTER ENGINEERING



TELEMETRY AND REMOTE CONTROL (TLMG1004)
THIRD EXAM 2019-2T – 12/Feb/2020

Student:

ID:

I, the undersigned, hereby declare that I agree to fulfill as a student the Ethics Code from ESPOL, regarding the "Behavior of the Polytechnic Community" in all its articles. Otherwise, I will accept the sanctions that ESPOL may have on me.

Signature:

CHOOSE THE OPTION THAT FITS THE BEST.

- 1) Which one of the following statement corresponds to the concept of fieldbus:
 - a) It is an industrial network system for real-time distributed control that connects instruments in a manufacturing plant.
 - b) It is an industrial network system that only connect to RS-232 interfaces for monitoring and controlling events in manufacturing plants.
 - c) It is an industrial network that operates exclusively in ranges from 4A to 20A in processes related to manufacturing.Chosen option: ____

- 2) SCADA systems are composed by (choose two):
 - a) Remote terminal units.
 - b) Human-Machine Interfaces.
 - c) Portable batteries.Chosen options: ____

- 3) Which one of the following is a characteristic of the RS-485?
 - a) Its maximum data rate is about 1 kbps.
 - b) Its typical logic levels are from 8 to 20 V.
 - c) It could be deployed with a maximum cable length of approximately 1.2 Km.Chosen option: ____

- 4) The Modbus protocol recommends the industrial communication between:
 - a) 247 slaves and 100 master.
 - b) 247 slaves and 10 master.
 - c) 247 slaves and 1 master.Chosen option: ____

- 5) Which one is an advantage in a sensor to panel configuration for monitoring?
 - a) It is easy to install additional sensors as the monitoring system grows.
 - b) It allows real data managing during supervision of manufacturing processes.
 - c) It does not need software programming to configure monitoring options.Chosen option: ____

