

FG30C - Pre-Instructional Survey

Name _____ Date _____

1. The AS-Interface protocol suite contains what protocol layers?
 - a) Layers 1,2 and 4
 - b) All 7 layers
 - c) Layers 1,2 and 7
 - d) It doesn't have layers

2. PROFIBUS-DP is different from PA because:
 - a) It has a different message format.
 - b) It uses a different cable type and signaling method.
 - c) It uses a different media access method.
 - d) The difference is just marketing fluff.

3. The data link layer includes protocols that look after:
 - a) Framing.
 - b) Media access control
 - c) Physical Addressing.
 - d) All the above.

4. The industrial 4-20 mA current loop standard is:
 - a) Based on the Modbus protocol
 - b) A single variable simplex system
 - c) A digital signaling system
 - d) A bus based system

5. PROFIBUS-DP uses which media access control methods?
 - a) Token passing ring and Master/Slave
 - b) Token passing bus and Master/Slave
 - c) CSMA/CD and Master/Slave
 - d) Master/Slave only

6. Most fieldbuses use what physical topology?
 - a) Point to point
 - b) Mesh
 - c) Ring
 - d) Bus

7. The Modbus/TCP protocol suite contains what protocols?
 - a) Ethernet, IP, TCP and the Modbus Application Protocol
 - b) Only TCP and the Modbus Application Protocol
 - c) Modbus+ and the Modbus Application Protocol
 - d) It doesn't have protocols

8. Which of the following can NOT be done by a repeater:
 - a) Extending the cable run length
 - b) Converting between two different buses
 - c) Converting between copper and fiber cabling
 - d) Allowing branching of the network

9. DeviceNet has a maximum message payload of
 - a) 4 Bits.
 - b) 1 Byte.
 - c) 8 Bytes.
 - d) 256 Bytes.

10. Foundation Fieldbus allows
 - a) Bus powered devices.
 - b) Segment lengths to be extended with a repeater.
 - c) Function blocks to run in the field device.
 - d) All of the above.

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1. c
2. b
3. d
4. b
5. b
6. d
7. a
8. b
9. c
10. d