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.
FG30C – Pre-Instructional Survey Answer Sheet

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