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Grade	10.00 out of 10.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

What does the term "Baud Rate" refer to?

- A) The number of bits in a byte
- B) The speed of communication in signal changes per second
- C) The voltage of the signal
- D) The length of the cable

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)



Question 2

Correct

Mark 1.00 out of 1.00

RS-485 uses "Differential Signaling." What does this mean?

- A) It uses one wire and a common ground.
- B) It transmits data as the voltage difference between two wires (A and B).
- C) It uses different speeds for uploading and downloading.
- D) It only works in Simplex mode.

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)

Question 3

Correct

Mark 1.00 out of 1.00

What does the "RS" in RS-232 stand for?

- A) Random Signal
- B) Recommended Standard
- C) Revised Serial
- D) Remote System

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)

Question 4

Correct

Mark 1.00 out of 1.00

Which of the following is a disadvantage of the RS-232 interface?

- A) It is very expensive
- B) It can only connect two devices point-to-point
- C) It uses too many wires
- D) It is a new, untested standard

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)

Question 5

Correct

Mark 1.00 out of 1.00

Why is the RS-485 standard capable of much longer distances (4000 ft) than RS-232 (50 ft)?

- A) It uses higher voltages (up to 100V).
- B) It uses differential signaling, where noise affects both lines equally and is cancelled out by the receiver.
- C) It uses thicker copper wires.
- D) It does not use a ground wire.

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)



Question 6

Correct

Mark 1.00 out of 1.00

What type of cable is used to connect two DTE devices (like two PCs) directly via their serial ports?

- A) Straight-through cable
- B) Null Modem cable
- C) USB cable
- D) Shielded Coaxial cable

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)

Question 7

Correct

Mark 1.00 out of 1.00

If you need to communicate over a very long distance (up to 4000 ft) in a noisy industrial area, which standard is best?

- A) RS-232
- B) RS-485
- C) I2C
- D) USB

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)



Question 8

Correct

Mark 1.00 out of 1.00

Which UART register is used to set the communication speed (Baud Rate)?

- A) Line Status Register (LSR)
- B) Divisor Latch (Low and High Bytes)
- C) FIFO Control Register (FCR)
- D) Scratch Register

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)

Question 9

Correct

Mark 1.00 out of 1.00

What is the main difference between Asynchronous and Synchronous transmission?

- A) Asynchronous uses a shared clock wire; Synchronous does not.
- B) Synchronous uses a shared clock; Asynchronous relies on start/stop bits and internal clocks.
- C) Asynchronous is always faster than Synchronous.
- D) Synchronous can only be used for Simplex communication.

- ☐ A. (A)
- ☒ B. (B) ✓
- ☐ C. (C)
- ☐ D. (D)



Question 10

Correct

Mark 1.00 out of 1.00

Which component is responsible for converting parallel data from a computer into serial data for the port?

- A) RAM
- B) CPU
- C) UART
- D) ROM

- ☐ A. (A)
- ☐ B. (B)
- ☒ C. (C) ✓
- ☐ D. (D)

