UART – Level 1 Test

1. What is Synchronous and Asynchronous communication?
2. What is Baud rate and Bitrate?
3. What is RS232 standard?
4. Explain the Difference between ASCII and Extended ASCII.
5. Draw the Pinout of DB9 connector.
6. What is the need for MAX232? Draw its Pinouts.
7. What is the maximum distance possible for UART communication?
8. Draw the internal system model of UART.
9. What is TXREG & RCREG. How they works?
10. Write the baud rate calculation for 4800 Baud rate.
11. What is half duplex & Full duplex? Explain with Synchronous & Asynchronous.
12. How will you configure interrupt for transmission.
13. Write the applications of UART.
14. Name some modules that working in UART communication.
15. What is parity bit?
16. What are the types of parity? Explain them.
17. What is Hamming code?
18. What is framing error?
19. What is over run error?
20. What is circuit used inside the baud rate generator?
21. What is FIFO and where it is used?
22. Write the UART frame.
23. What is NRZ (Non Return Zero)?
24. What is the minimum and maximum baud rate possible?
25. Write the real time application of Synchronous communication? Discuss the merits and demerits with Asynchronous protocol.