I2C – Level 1 Test

1. What are modes used in i2c.
2. Explain about i2c elements.
3. Draw write and read frames with timing diagram in i2c.
4. Draw the system model of I2C of PIC. Explain i2c registers.
5. How many devices possible in 7 bit&10bit addressing mode?
6. What is Arbitration? Explain which will win on following Strategies.
7. 2 masters send 2 different addresses to slave
8. 2 masters sends same slave addresses with different speed
9. What is broadcasting? What is the address of it?
10. Write down the formula with calculation of finding pull up resistor in I2c bus.
11. What is SMBus? Difference between I2C & SMBus.
12. What is the maximum distance possible in i2c protocol?
13. Write some real time applications of I2C.
14. What is Clock stretching?
15. What is Write collision & Overflow?
16. What is open drain in I2c?
17. What are types of addressing in I2C?
18. Write down the formula to calculation master clock speed.
19. Write advantages and disadvantages of i2c..
20. Write procedures for i2c master and slave.
21. Draw simple interface connection for pic-mc to pic-mc using i2c
22. Write program to initiate master and slave in pic16f877a using i2c.
23. Write a simple code for i2c interface.
24. Interface rtc and eeprom with pic16f877a using i2c.