Assignment: 2

Subject Code: CC-201

Subject Name: Computer Organization

Date of Submission: 8/9/2021

Title: Data Representation and transfer micro operations

- 1. Explain (r)'s and (r-1)'s complement with example.
- 2. Perform binary addition

1) 1111 + 10101

4) 10111 + 110101

2) 1100 + 11001

5) 11101 + 1010

3) 11111 + 11101

3. Perform binary subtraction

1) 1001 - 11

4) 1101 – 110

2) 1101 - 11

5) 1111 – 111

3) 10. 10001 - 100

- 4. Explain floating point numbers with example. Also explain normalization of floating point number.
- 5. Explain error detection code with diagram.
- 6. What is bus? Write types of bus.
- 7. Explain memory transfer with diagram using multiplexer.
- 8. What is three state buffers? Explain bus system using three state buffers.
- 9. Write four types of micro operations.
- 10. Explain binary adder- subtractor with diagram.
- 11.Explain binary incrementer with diagram.
- 12. Explain arithmetic circuit with diagram.
- 13.Explain hardware implementation of logic micro operations with diagram.
- 14. Explain types of shift micro operations
- 15. Explain hardware implementation of arithmetic shift with diagram.
- 16.Explain arithmetic logic shift with diagram.