

DEPARTMENT: ELECTRICAL

SEMESTER: 3RD

NAME: DIGITAL FUNDAMENTAL SUBJECT

CODE: 3130704

FACULTY NAME: SUNIL PATEL

ASSIGMENT 6: ADDER AND SUBSTRACTOR

- 1. Implement F = £(1,3,7,11,15) with don't care condition d = £(0,2,5)
- 2. With logic diagram and function table explain the operation of 4 to 1 line multiplexer.
- 3. With logic diagram and truth table explain the working of 3 to 8 line decoder.
- 4. Design a full adder circuit using decoder and multiplexer.
- 5. Explain full-adder & half-adders
- 6. Design a full-adder with two half-adders and an OR gate.
- 7. Explain Magnitude Comparator.

