S.B. Roll No

DIGITAL ELECTRONICS 3rd Exam/ECE/0195/Feb'2021 (For 2018 Batch onwards)

Duration: 1.15Hrs. M.Marks:25

SECTION-A

Q1. Attempt any three questions.

3x5=15

- a. List difference between analog and digital system
- b. Describe NAND gate as universal gate
- c. Define SSI,MSI,LSI and VLSI
- d. Explain Half Adder
- e. Difference between multiplexer and demultiplexer
- f. Explain operation of R-S Flip flop
- g. Explain working of ring counter

SECTION-B

Q2. Attempt any one question.

1x10=10

b) Decoder

- i. Draw and explain full adder circuit
- ii. Explain working of shift register
- iii. Minimize the following using K-MAP F(A,B,C,D) = EM(0,1,2,3,5,7,8,9,11,14)
- iv. Explain De Morgan theorem
- v. Write a short note on the following. a) Seven segment display