S.B. Roll No. $\qquad$

## DIGITALELECTRONICS

$3{ }^{\text {rd }}$ Exam/ECE/ 0195/ Feb'2021
(For 2018 Batch onwards)

## Duration: 1.15Hrs.

## SECTION-A

Q1. Attempt any three questions.
M.Marks:25
$3 \times 5=15$
a. List difference between analog and digital system
b. Describe NAND gate as universal gate
c. Define SSI,M SI,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.
$1 \times 10=10$
i. Draw and explain full adder circuit
ii. Explain working of shift register
iii. M inimize the following using K-M AP
$F(A, B, C, D)=E M(0,1,2,3,5,7,8,9,11,14)$
iv. Explain De M organ theorem
v. Write a short note on the following. a) Seven segment display b) Decoder

