Tota	d No. of Qu	estions – [03]

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OCTOBER 2019/ INSEM (T1)
S. Y. B.TECH. (COMPUTER ENGINEERING/INFORMATION TECHNOLOGY)
(SEMESTER – III)

COURSE NAME: ANALOG AND DIGITAL ELECTRONICS

COURSE CODE: CSUA21181/ITUA21181

(PATTERN 2018) (Model Answer)

Time: [1 Hour]

[Max. Marks: 20]

[2 marks]

Q 1 a) Definition of 1's & 2's complement should be written with one example.	ple each
[4 marks].	lle [2 marks]
Map the given SOP expression into K-map and do the grouping of ce Obtain minimized expression and design logical circuit diagram	[2 marks]
Q 1 b) Draw minimized table (expected 3 tables)	[2 marks]
Find minimized expression	[1 mark]
Find PI and EPI from the table	[1 mark]
Q 2 a) Design Truth Table for conversion	[2 marks]
Obtain SOP expression	[2 marks]
Map SOP expression into K-Map	[2 marks]
Draw Logical Circuit Diagram	[2 marks]
Q.2 b) Draw block diagram of BCD adder with explanation	[2 marks]
Describe three cases with examples	[6 marks]
Q. 3 a) Draw J-K Flip-Flops block diagram	[1 mark]
Truth Table	[1.5 marks]
Excitation Table	[1.5 marks]
Q.3 b) Draw Truth Table of S-R flip flop	[2 marks]

Draw block diagram for conversion of S-R Flip Flop to J-K Flip Flop