

Total No. of Questions – [03]

Total No. of Printed Pages: 01

G.R. No.	
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Paper code - U239-141(T1)IT)
U 239-121(T1) comp

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)
(Marking Scheme)

Time: [1 Hour]

[Max. Marks: 20]

- Q 1 a) 1's complement definition [1 mark]
Example [1 mark]
2's complement definition [1 mark]
Example [1 mark]
Mapping of SOP expression into K-map [1 mark]
Grouping of cells [1 mark]
Obtaining minimized expression with logical circuit diagram [2 marks]
- Q 1 b) Each table [2 marks] (expected 3 tables)
Minimized expression [1 mark]
Finding of PI and EPI [1 mark]
- Q 2 a) Truth Table [2 marks]
Obtaining SOP expression [2 marks]
Mapping SOP expression into K-Map [2 marks]
Drawing Logical Circuit Diagram [2 marks]
- Q.2 b) Block diagram of BCD adder with explanation [2 marks]
Three cases with examples [6 marks]
- Q. 3 a) Block diagram [1 mark]
Truth Table [1.5 marks]
Excitation Table [1.5 marks]
- Q.3 b) Truth Table of S-R flip flop [2 marks]
Conversion with block diagram of J-K Flip Flop [2 marks]