

SCHOOL OF ELECTRICAL ENGINEERING

Continuous Assessment Test - II, October 2016

B.Tech. (CSE\IT\ME\CE\BT), Fall Semester 2016

Course Code : EEE1001

Duration: 90 Minutes.

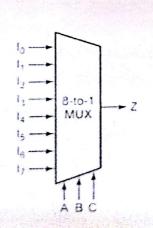
Course Name: Basic Electrical and Electronics Engg.

Max. Marks : 50

Answer all the questions.

2 Design a multiplexer for the truth table given below

[10]



Α	В	С	Z
0	0	0	la
0	0	1	1,
0	1	0	13
0	1	1	15
1	0	0	17
1	0	1	12
1	1	0	14
1	1	1	16

- Design an alarm system consisting of four Switches S₁, S₂, S₃, S₄. The alarm (A) [10] should sound if the switch S₁ is off & S₂ is on, or if S₁, S₂, S₃ is on & S₄ is off. From the truth table, obtain the minimal Boolean expression using K-Map and design the logic circuit with reduced expression
- Design a logic circuit which receives four bit binary number and gives out an output whenever the number is divisible by 3 or 4

5 a		Design a circuit to add three bit numbers with two circuits adding two bit	
	b	numbers Convert the following numbers into binary	[3]
		(i) AE.12 ₁₆ (ii) 67.125 ₈ (iii) 10.826 ₁₀	