Department of Electronics & Communication Engineering

Faculty of Engineering, Integral University, Lucknow

Quiz 1

Mechatronics (IEME-024)

Candidate Name: Time: 10

Minutes

University Roll Number & Group:

Date: August 19, 2015

Maximum Marks: 10

Year: Pre Final Year Mechanical Engineering

Note: Attempt all the question. All question carry equal marks.

- 1. A pure sine wave is:
- a) a digital signal
- b) analog signal
- c) can be digital or analog signal
- d) neither digital nor analog signal
- 2. A register is:
- a) a group of memories
- b) a group of devices that store digital data
- c) a chip used in computer
- d) a pure silica piece used in digital system
- 3. AND operation is:
- a) X(X + Y)
- B) XY
- C) X+Y
- D) (X+Y) (X+Y)
- 4. Which one is the universal gate:
- a) AND gate
- b) OR gate
- c) NAND gate
- d) EX-OR gate
- 5. The gray code for number 2 is:

a) 0010 b) 0011 c) 1000 d) 0101
6. The Excess 3 for number 6 is : a) 1100 b) 1001
c) 0101 d) 0110
7. The expression for sum of A, B in the half adder is given by:
a) AB b) A + B
c) AĐ B
d) none of these
8. Which of the following flip-flops is used as latch:
a) JK flip-flop
b) D flip-flop c) RS flip-flop
d) T flip-flop
9. Combinational circuit has:
a) mamany
a) memory
b) no memory
b) no memory c) flip-flops
b) no memory c) flip-flops d) counters 10. In 8:1 mux the no. of select lines are: a) 1
b) no memory c) flip-flops d) counters 10. In 8:1 mux the no. of select lines are: