Reg. No. _____

Karunya University

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)
(Anna University batch)

End Semester Examination – November / December 2008

Subject Title: ELECTRONICS AND MICROPROCESSORS **Time : 3 hours**
Subject Code: EC213 **Maximum Marks: 60**

Answer ALL questions

PART – A (10 x 1 = 10 MARKS)

1. _____ Oscillator uses to tapped coil in the LC tuned circuit.
2. An op-amp should never be operated at frequency at which phase shift is nearly _____
3. A substance that changes its electrical resistance when light falls on it, is known as _____ substance.
4. A meggar is basically a _____ type instrument.
5. The binary equivalent of $(3DB)_{16}$ is _____
6. The radix for decimal system is _____
7. _____ is the part of an instruction that identifies a specific operation.
8. Every subroutine must terminate with a _____ instruction.
9. A signaling unit in data transmission that equals 1 bit per second is known as _____
10. The common physical boundary between two systems or devices are known as_____

PART – B (5 x 2 = 10 MARKS)

11. What is meant by biasing a transistor?
12. Define stability of a transducer?
13. What is decade counter?
14. Differentiate conditional and unconditional branching instruction.
15. What is PROM?

PART – C (5 x 8 = 40 MARKS)

16. Describe RC phase shift oscillator with the neat diagram.

(OR)

17. Describe op-amp comparators.

18. a. Write short notes on thermistor
    b. What is the working principle of variable reluctance type inductive transducers?

(OR)

19. Describe the operation of LVDT.

20. What are the shift registers? What are the different types of shift registers?

(OR)

21. Explain the operation of D flipflop, JK flipflopand T flip flop.

22. Explain the various instruction set of Intel 8085.

(OR)

23. Describe the architecture of microprocessor 8085.

24. Write the short notes on ROM?

(OR)

25. With a suitable example explain the application of microprocessor?