C 26898 (Pages : 2) Name.....

Reg. No.....

FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION MAY 2012

AI 09 405—ELECTRONIC CIRCUITS—II

(2009 admissions)

Time : Three Hours Maximum : 70 Marks

Part A

Answer **all** *questions.*

1. What are commutating capacitors ?
2. Define sweep speed.
3. Draw the block diagram of a current shunt feedback amplifier.
4. Give the application of class A, class B and class C power amplifiers.
5. What is Barkhausen criterion ?

(5 × 2 = 10 marks)

Part B

Answer any **four** *questions.*

1. Explain the working of a MOS inverter.
2. Discuss the general features of a time base signal. Draw the schematic diagrams of Miller and Bootstrap time base generators.
3. Discuss on the frequency stability of an oscillator.
4. Discuss the efficiency of class A, class B, and class C and class AB amplifiers.
5. Explain the working of a PLL.
6. Discuss effect of negative feedback on input impedance of a voltages hunt feedback circuit and current series feedback circuit.

(4 × 5 = 20 marks)

Part C

Answer **all** *questions.*

1. (a) Explain the working of a UJT sweep circuit.

Or

(b) Explain the working of a Schmitt trigger circuit.

2. (a) Explain the working of 555 IC timer as a monostable multivibrator.

Or

(b) Explain any two applications of PLL.

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3. (a) Explain the working of a Wein bridge oscillator.

Or

(b) Explain the working of a Hartley oscillator.

4. (a) Explain the working of transformer coupled class A power amplifier.

Or

(b) Explain the working of class C amplifiers.

(4 × 10 = 40 marks)