

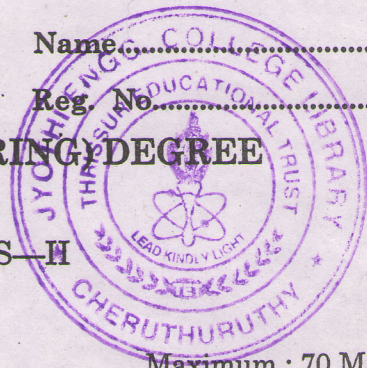
C 15658

Name.....

Reg. No.....

**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2011**

**AI 09 405—ELECTRONIC CIRCUITS—II
(2009 admissions)**



Time : Three Hours

Maximum : 70 Marks

Part A

1. State any *two* applications of transistor as a switch.
2. What is a Miller circuit ?
3. Classify feedback amplifiers.
4. What are harmonics ?
5. What is a negative resistance device ? Give an example.

(5 × 2 = 10 marks)

Part B

Answer any four questions.

1. Explain the need and use of commutating capacitors in a bistable multivibrator circuit.
2. Explain the working of a 555 timer IC.
3. (a) What are the advantages of negative feedback ?
(b) What is the criteria for oscillation ?
4. Explain the applications of various power amplifiers.
5. Explain the response of a high pass RC circuit to a step input.
6. State the general features of a time base generator.

(4 × 5 = 20 marks)

Part C

1. (a) Explain the working of a monostable multivibrator using transistors.
Or
(b) Explain the working of UJT sweep circuit.
2. (a) Explain the working of a Bootstrap time base generator.
Or
(b) Explain any *two* applications of PLL.
3. (a) Explain the working of a Hartley oscillator.
Or
(b) Explain the effect of feedback on voltage series, current series, voltage shunt and current shunt feedback.
4. (a) Explain the working of class C amplifiers.
Or
(b) Explain the working of a class B push-pull amplifier.

(4 × 10 = 40 marks)