



**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGRLE EXAMINATION
MAY 2012**

EC 09 403/PT EC 09 402—ELECTRONIC CIRCUITS

(2009 admissions)

Time : Three Hours

Maximum : 70 Marks

Part A

1. Define ripple factor.
2. What is a bode plot ?
3. Define CMRR.
4. State an application of monostable multivibrator and Schmitt trigger.
5. What is the principle of low power transformers ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

1. Discuss briefly on inductors.
2. Discuss the low and high frequency response of common emitter amplifier.
3. Discuss the characteristics of UJT.
4. Discuss the working of transistor as a switch.
5. Draw the hybrid π and r models of BJT. Discuss the effect of temperature on BJT model parameters.
6. Discuss on the stability of oscillators.

(4 × 5 = 20 marks)

Part C

1. (a) Discuss the working and efficiency of L, C and LC filters.

Or

- (b) Explain the working of RC coupled multistage amplifier. Discuss its frequency response.

2. (a) Explain the working of class AB amplifier.

Or

- (b) Discuss the working of Emitter follower.

3. (a) Discuss the working of Hartley oscillator.

Or

- (b) Discuss the frequency response of differential amplifier and methods to improve CMRR of differential amplifier.

4. (a) Explain the working of Schmitt trigger.

Or

- (b) Explain the working of a monostable multivibrator.

(4 × 10 = 40 marks)

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