

Roll No .....

**EI/IC-404 (Old)**

**B.E. IV Semester**

Examination, December 2016

**Electronic Circuits**

*Time : Three Hours*

*Maximum Marks : 70*

- Note:* i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) Discuss the concept of positive and negative feedback.  
b) Discuss the merits of negative feedback.
2. a) Explain about voltage and current feedback.  
b) What is the stability criterion of amplifiers?
3. a) Explain R-C phase shift oscillator.  
b) Explain Wein bridge oscillator.
4. a) Discuss about differential amplifiers.  
b) Analyse amplifier using h-parameters.
5. a) Explain Direct coupled amplifiers.  
b) Explain Chopper amplifiers.

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6. a) Discuss differential mode and comparator application of Op-Amp.  
b) Explain the working of Schmitt trigger.
7. a) Explain butter worth approximation of filter.  
b) Explain V/F converters using 555 timer.
8. Write short notes on any two of the following:
  - a) Negative resistance oscillator.
  - b) Instrumentation amplifiers.
  - c) Logarithmic amplifiers.

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