different from phase shift oscillator?

of butter worth 1st order low pass filter.

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5. a) Write different characteristics of filters. Give

Explain the Wein bridge oscillator circuit. How does it

classification of filters used in OP-AMP. Explain any one

b) Derive a relation for magnitude and frequency response

Examination, December 2016

Linear Integrated Circuits and its Application

Time: Three Hours

Maximum Marks: 70

Note: i) Answer any five questions.

- ii) All questions carry equal marks.
- 1. a) Draw and explain the basic block diagram of OP-AMP. Give its characteristics. Explain the equivalent circuit of ideal OP-AMP.
  - Give a brief classification of OP-AMP and explain any one of them.
- Derive a different relations explaining power supply configurations of OP-AMP.
  - b) Write any five differences between inverting and non-inverting amplifiers.
- 3. a) Write short note on input offset voltage and offset current. Explain the effects of variations in power supply voltage.
  - Derive relations for CMRR and slew rate of practical OP-AMP.
- Explain summing amplifier. Derive its various relations with respect to practical OP-AMP.

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Explain Chebyshev filters. Write any five differences

between Chebyshev and band reject filters.

b) Explain zero crossing detectors. Write an introductory note on Schmitt trigger circuit.

of them.

7. a) Explain the circuit which gives amplitude modulation using analog multiplier. Derive its relations to support

your answer. b) Discuss the principle of fixed and adjustable voltage.

Explain with the help of suitable examples.

Write short notes on (any four)

Analog multiplier - MPY634 TL082 datasheet

Log/Anti log amplifier

Current to voltage converter

Notch filter

Triangular/Rectangular wave Generator

EX-405 (New)

PTO

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