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# Question Paper Code: 40958

14/05/18 FN

## B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Fourth Semester

Electronics and Communication Engineering EC 6404 – LINEAR INTEGRATED CIRCUITS

(Common to : Medical Electronics/Robotics and Automation Engineering)
(Regulations 2013)

Time: Three Hours

Maximum: 100 Marks

## Answer ALL questions

### PART - A

 $(10\times2=20 \text{ Marks})$ 

- 1. Enumerate any two blocks associated with Op-Amp block schematic.
- 2. What are the two methods can be used to produce voltage sources?
- 3. What is the function of a phase shift circuit?
- 4. Write the other name for clipper circuit.
- 5. State any two terminologies associated with multiplier characteristics.
- 6. What is Gilbert Multiplier Cell?
- 7. Define Sampling.
- 8. Write the names of the switches used in MOS Transistors.
- 9. Name some LC oscillator circuits.
- 10. Define Line regulation.

### PART - B

 $(5\times13=65 \text{ Marks})$ 

- 11. a) Discuss about the principle of operation differential amplifier using BJT. (13)
  (OR)
  - b) Explain about Ideal Op-Amp in detail with suitable diagrams.

(13)

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