

## B.Tech IV Year II Semester (R13) Advanced Supplementary Examinations July 2018

**RF INTEGRATED CIRCUITS**  
(Electronics and Communication Engineering)

Time: 3 hours

Max. Marks: 70

**PART – A**  
(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the conditions for resonance in parallel RLC network.
  - What is reflection coefficient in RF system?
  - What is the relation between bandwidth and rise time for 1<sup>st</sup> order systems?
  - What is figure of merit for a MOS devices?
  - Define noise figure.
  - What is mixer? Why the uses of mixer?
  - What is meant by negative resistance oscillators?
  - What is the difference between filter and loop filter?
  - Define phase noise.
  - What is CDMA?

**PART – B**  
(Answer all five units, 5 X 10 = 50 Marks)**UNIT – I**

- 2 (a) Explain in detail 'P' and 'T'-matching of a network.  
(b) Explain in detail the basic architecture of a RF system.

**OR**

- 3 (a) Compare parallel RLC and series RLC networks.  
(b) Explain about passive IC components interconnects in detail.

**UNIT – II**

- 4 (a) Draw and explain about shunt-series amplifier and write its applications.  
(b) Draw and explain about CS-amplifier for a single tuned amplifier.

**OR**

- 5 Explain and derive bandwidth estimation using open circuit time constant and short circuit time constant.

**UNIT – III**

- 6 (a) Discuss about thermal noise, flicker noise and noise figure.  
(b) Explain in detail LNA design.

**OR**

- 7 Explain about mixer design and sub sampling mixers.

**UNIT – IV**

- 8 (a) Explain about class A, AB RF power amplifier with neat diagrams.  
(b) Explain about charge pumps and loop filters.

**OR**

- 9 Write short notes on:  
(a) Voltage controlled oscillators.  
(b) Negative resistance oscillators.

**UNIT – V**

- 10 (a) Explain about GSM radio architectures in detail with suitable diagram.  
(b) Discuss about integer-N synthesis and fractional frequency synthesis.

**OR**

- 11 Write short notes on:  
(a) UMTS radio architectures.  
(b) CDMA radio architectures.

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**Guillaume Favre**



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