

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)

- 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 1st 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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**Dr. S. K. Sarkar & Dr. M.V.S.S.N.
Prasad**



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