

B. Tech. Sem -VII (E & TC Engg.) (2014 COURSE) (CBCS) :
SUMMER - 2019
SUBJECT: RADIO FREQUENCY ENGINEERING

Day: Tuesday
Date: 14/05/2019

Time: 02.30 PM TO 05.30 PM
Max Marks. 60

S-2019-2864

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data, if necessary.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

Q.1 Explain chip and HF resistance. **(10)**

OR

Q.1 With neat diagram explain surface mounted inductor. **(10)**

Q.2 Explain with neat diagram RF generator. **(10)**

OR

Q.2 Explain observation and accuracy of OC_{TS} . **(10)**

Q.3 Explain series-shunt peak amplifier. **(10)**

OR

Q.3 What is two-port and explain its Enhancement techniques. **(10)**

Q.4 LAN topologies with low noise amplifier design. **(10)**

OR

Q.4 Write short note on **(10)**

- i) Noise Figure
- ii) Shot Noise

Q.5 Describe function and startup module of crystal oscillators. **(10)**

OR

Q.5 Differentiate with common Emitter and common Gate. **(10)**

Q.6 Characteristic of mixer with balanced mixer. **(10)**

OR

Q.6 Explain single ended FET mixer. **(10)**

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