

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VII Electronic & Telecommunication : WINTER- 2022
SUBJECT : RADIO FREQUENCY ENGINEERING

Day : Monday

Time : 02:30 PM-05:30 PM

Date : 19-12-2022

W-13370-2022

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
 - 2) Figure to the **RIGHT** indicate full marks.
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Q.1 Determine stability consideration for RF components? **[10]**

OR

Q.1 Design circuit Board considerations for chip components? **[10]**

Q.2 How to measure antenna parameter using vector network analyzer? **[10]**

OR

Q.2 How to improve Bandwidth for communication? **[10]**

Q.3 Design antenna to working for High Frequency? **[10]**

OR

Q.3 Bandwidth techniques for High Frequency. **[10]**

Q.4 What is MOSFET function explain in detail. **[10]**

OR

Q.4 What is noise? How it affecting on Amplifier Designs? **[10]**

Q.5 Design of RC phase shift oscillator with $f_r = 500$ MHz. **[10]**

OR

Q.5 Design oscillator using two-port describe function of it? **[10]**

Q.6 What are different types of Mixers? Design single ended Diode Mixer? **[10]**

OR

Q.6 What is mixer fundamentals? Explain Image Reject Mixer? **[10]**

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