

18BB1154

M. Tech. EXAMINATION, 2020

(Second Semester)

(C Scheme) (Re-appear)

(ECE)

MTEC522C

ANTENNA AND RADIATING SYSTEM

Time : 2½ Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Four* questions in all. All questions carry equal marks.

1. (a) Explain various types of Antennas ?
(b) Explain antenna temperature.
2. (a) What are various radiation patterns ?
(b) Explain Friis transmission equation.
3. Compare various dipole antennas.
4. Compare various circular loop antennas.
5. (a) Compare broadside and End fire array.
(b) What is Huygen's Field Equation principle ?
6. (a) What are design considerations in planar array ?
(b) What are various types of horn antennas ?

7. (a) Give basic characteristics of microstrip antennas.
(b) Explain MIMO.
8. (a) Compare rectangular patch with circular patch.
(b) Compare plane reflector with parabolic reflector.