

CENTRAL INSTITUTE OF TECHNOLOGY, KOKRAJHAR

(Deemed to be University)

KOKRAJHAR :: B.T.A.D. :: ASSAM :: 783370

END – SEMESTER EXAMINATION
UG

Session: January-June, 2025

Semester: 6th Time: 3Hrs. Full Marks: 100

Course Code: UEC615A

Course Title: Antennas and Propagation

6. (a) What are the advantages of antenna array?
(b) Deduce the expression of total electric field for two infinitesimal horizontal dipole antennas positioned along z axis directed along y axis.
(c) What is array factor? on which parameters this factor depends?
(d) Obtain the pattern of the two isotropic point sources with identical amplitude and opposite phase currents, and spaced one half wavelength apart.

3+6 + (2+2) + 7

