

GITAM (Deemed to be University)
GST/GSS/GSB/GSHSS Degree Examination
VIII Semester
EECE2141 : TELECOMMUNICATIONS FOR SOCIETY

Time: 2 Hours

Max. Marks: 30

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Instruction: All parts of the unit must be answered in one place only.
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Section - A

- 1. Answer all questions** **(5x1=05)**
- a. Define a CCD and its role in a fax machine.
 - b. State one limitation of 2.5G system.
 - c. What is the IEEE standard on which ZigBee is based?
 - d. What is the concept of dispersion of light?
 - e. How do GPS receivers distinguish between the different satellite signals that are all transmitted at the same frequencies?

Section - B

Answer the following **(5x5=25)**

UNIT - I

2. Compare and contrast the roles of LECs and IXC's in the overall telephone system.

OR

3. Imagine you are designing a new feature for a modern electronic telephone. Describe the feature, how it would work, and its potential benefits to the user.

UNIT - II

4. What is a Base station? Explain its importance in cell phone technology.

OR

5. Explain about CDMA 2000?

UNIT - III

6. What wireless service sometimes accompanies an M2M application? List five applications for M2M.

OR

7. Explain briefly five potential applications of RFID.

UNIT - IV

8. Explain the applications of fiber optic cables.

OR

9. Elaborate the concept of Numerical Aperture in Fiber optic cables.

UNIT - V

10. What is a geostationary orbit?

OR

11. Explain the TTC subsystem with a suitable block diagram.