

GITAM (Deemed to be University)
GST/GSS/GSB/GSHSS Degree Examination
III 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. What is the protocol used by computers connected to the Internet?
 - b. Mention the data rate that can be achieved using LTE.
 - c. Give two main uses for white space radio.
 - d. List the benefits of fiber optic cables.
 - e. What is the difference between artificial and natural satellites?

Section - B

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

UNIT - I

2. Demonstrate the Organization of the telephone system constructed with the help of LATA.

OR

3. Explain the function of the modem in a fax machine.

UNIT - II

4. Illustrate the use of the HSPA technique used in the 3G system.

OR

5. Classify multiple access techniques and explain briefly.

UNIT - III

6. Explain the basic concept and components of an RFID system.

OR

7. Explain Zigbee and Metropolitan Area Network with suitable diagrams.

UNIT - IV

8. Explain the working of the Avalanche diode as a detector.

OR

9. Discuss in detail the fiber-optic cable construction with neat diagram.

UNIT - V

10. Write a short note on the Antenna subsystem.

OR

11. Define Enhanced GPS and discuss the key technologies and techniques that contribute to its improvement over standard GPS.