GITAM (Deemed to be University)

GST/GSS/GSB/GSHSS Degree Examination

V/VII Semester

EECE2141 : TELECOMMUNICATIONS FOR SOCIETY

Time: 2 Hours   **Max. Marks: 30**

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

Section - A

1. **Answer all questions**   **(5x1=05)**

a. What is the protocol used by computers connected to the Internet?

b. How to increase the coverage of a base station?

c. Write the most common ZigBee network topologies.

d. How does 100GBASE-ER4 differ from 100GBASE-LR4?

e. What is the difference between artificial and natural satellites?

Section - B

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

UNIT - I

2. Demonstrate the knowledge and service of the analog and digital telephones.

OR

3. Illustrate the significant role of microprocessor control in modern telephones.

UNIT - II

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

OR

5. Explain the Modulation, Bandwidth and Data rate of 4G LTE.

UNIT - III

6. Define IoT. Explain the wireless technologies used in IoT applications.

OR

7. Explain briefly five potential applications of RFID.

UNIT - IV

8. Describe the fiber optic communication system with a neat diagram.

OR

9. Explain briefly the multi-mode step-index cable.

UNIT - V

10. Explain the significance of Transmitter subsystems.

OR

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