

GITAM (Deemed to be University)
GST/GSS/GSB/GSHSS Degree Examination
VI/ 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. What is another name for facsimile?
 - b. What is the basic service unit of cellular telephony?
 - c. Name the three Wi-Fi frequency bands
 - d. What is graded index fiber?
 - e. Define Prograde orbit and Retrograde orbit.

Section - B

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

UNIT - I

2. Describe a typical home VoIP setup, including the necessary hardware and connections.

OR

3. Describe the different levels of hierarchy in the PSTN, from individual phones to local exchanges, central offices, and IXC networks.

UNIT - II

4. Draw the block diagram of 2G digital cell phone and explain it?

OR

5. What are the benefits and challenges of implementing small cell technology?

UNIT - III

6. Compare and contrast WiMAX and traditional mobile broadband technologies.

OR

7. Explain the access mode, modulation, and frequency bands for the newest form of UWB. What is the primary disadvantage of UWB?

UNIT - IV

8. Explain about connectors and splicers in detail

OR

9. Explain about optical transmitter and receiver in detail.

UNIT - V

10. Describe the advantages of satellite communication over terrestrial communication systems.

OR

11. Explain the concept of Enhanced GPS (EGPS) and discuss the technologies and techniques used to improve the accuracy and reliability of standard GPS.