

[Nov-23]

**GITAM (Deemed to be University)**  
**[EECE2141]**  
**GST/GSS/GSB/GSHS Degree Examination**

**III Semester**

**TELECOMMUNICATIONS FOR SOCIETY**

(Effective for the admitted batch 2021-22 AB)

**Time: 2 Hours**

**Max. Marks: 30**

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

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**Section-A**

**1. Answer all Questions:** **(5×1=5)**

- a) What is DTMF?
- b) What is the bandwidth of GSM channel.
- c) What is the access technology and maximum data rate of IEEE 802.11b standard?
- d) Define an optical fiber?
- e) Write the applications of satellites.

**Section-B**

**Answer the following:** **(5×5=25)**

**UNIT-I**

2. Explain Voice signal flow in VoIP systems.

**OR**

3. Explain basic Telephone set with a neat schematic

**UNIT-II**

4. Compare FDMA and OFDM.

**OR**

5. Analyze Digital cell phone architecture.

**UNIT-III**

6. Draw and explain IR receiver.

**OR**

7. Distinguish WLAN and Wi Max briefly.

**UNIT-IV**

8. Give the classification of optical fiber cables.

**OR**

9. Explain the construction of an optical fiber.

**UNIT-V**

10. Draw and explain dual converter down converters briefly.

**OR**

11. Draw and explain a generic DBS receiver.

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