

[Nov-23]

GITAM (Deemed to be University)
[EECE2141]

GST/GSS/GSB/GSHS Degree Examination
III Semester

TELECOMMUNICATIONS FOR SOCIETY
(Effective from the admitted batch 2021–22)

Time: 2 Hours

Max.Marks: 30

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

SECTION-A

1. **Answer all the questions.** (5x1=5M)

- a) Define POTS and PSTN.
- b) What is the basic GSM data rate?
- c) What is the primary application of ISM wireless technology?
- d) What is the purpose of a multiplexer in fiber-optic systems?
- e) How is digital data formatted for transmission through fiber-optic cables?

SECTION-B

Answer the following:

(5x5=25M)

UNIT-I

2. Explain Internet telephony briefly.

OR

3. Describe the components of telephone set with a neat diagram.

UNIT-II

4. Classify multiple access techniques and explain briefly.

OR

5. Compare HSPA and WCDMA.

UNIT-III

6. Compare Bluetooth and Zigbee.

OR

7. Explain IR transmitter.

UNIT-IV

8. Describe the losses occurred in optical fiber cables briefly.

OR

9. Give the classification of optical fiber configurations.

UNIT-V

10. What are the Frequency bands used in satellite communication and give its frequency range?

OR

11. Draw and explain the general block diagram of a communication satellite.