

Seat  
No.

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CEI1332

## Electronics Communication (New) (1110)

P. Pages : 2

Time : Three Hours

Max. Marks : 100

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** sub questions from each unit.
5. All units are compulsory.
6. Assume suitable data if required.
7. Figures to the right indicate full marks.
8. All questions carry equal marks.

### UNIT - I

1. a) Explain the following terms of Television in detail. 10
  - i) Aspect ratio
  - ii) Image continuity
  - iii) Interlaced scanning.
- b) Explain the seven layers of OSI reference model in detail. 10
- c) Explain the need of communication networks. Explain architecture of one of the network used in communication networking. 10

### UNIT - II

2. a) Draw and Explain block diagram of MIT RADAR in detail. 10
- b) Explain FM microwave radio system. Define microwave system gain. 10
- c) Give the principle of RADAR. Derive the radar range equation. 10

**UNIT - III**

3. a) Describe the following terms of telephony system. **10**
- i) Cross talk
  - ii) ECHO Suppressors
  - iii) Voice frequency circuit arrangement.
- b) Explain different tones used in telephone system with waveforms. **10**
- c) Express : **10**
- i) Caller ID system
  - ii) Cordless telephones
  - iii) Paging systems

**UNIT - IV**

4. a) Explain Electronic exchange and discuss the drawbacks of earlier exchange. **10**
- b) Give the GSM architecture and cellular services. **10**
- c) Describe : **10**
- i) Frequency Reuse
  - ii) Hand - off
  - iii) Splitting

**UNIT - V**

5. a) Explain NTSC, PAL for monochrome television system. **10**
- b) Describe DTH, HDTV & 3 DTV in detail. **10**
- c) Explain : **10**
- i) Composite video signal.
  - ii) Mono & colour cameras.
  - iii) Mono & colour picture tubes.

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