



Electronics Communication (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. Answer sheet 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. Solve **any two** sub questions from each unit.
5. Non programmable calculator is allowed.
6. Assume suitable data if necessary.
7. Figures to the right indicates full marks.

UNIT - I

1. a) What is the need of scanning ? Explain an Interlaced scanning with diagram & how it conserves the band width ? **10**
b) Explain the block schematic of an Electronics communication system. **10**
c) List the basic network components and explain the functions of data flow layers in OSI model. **10**

UNIT - II

2. a) Explain the block schematic of basic digital microwave system. **10**
b) Enlist the various protection switching arrangements ; and explain the block diagram of microwave switching arrangement by diversity. **10**
c) Explain in detail with diagram about CW Radar. **10**

UNIT - III

3. a) Explain the generations of tones in telephone circuits, also mention the significances of various tones of telephone with waveforms. **10**

- b) Write short note on. 10
 i) Electronics telephone.
 ii) Paging system
- c) Explain in brief about crosstalk and Echo suppressor and cancellers. 10

UNIT - IV

4. a) Define Hand off process. How they are initiated ? 10
 Explain in detail about inter system Handoff.
- b) With the help of neat block diagram explain the architecture of GSM. 10
- c) Write short note on : 10
 i) IS 95 std.
 ii) Cell splitting.

UNIT - V

5. a) Draw the three lines composite video signal & 10
 explain various components related to it.
- b) List the types of colour picture tubes. Explain the working of PIL colour picture tube with neat diagram. 10
- c) Explain complete digital system hardware of cable T. V. with neat diagram. 10
