

**EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION
JUNE 2011**

EC 04 805 (D) - TELEVISION ENGINEERING AND RADAR SYSTEMS
(2004 ADMISSIONS)

Time : Three Hours

Maximum: 100 Marks

Answer all questions

- I (a) Explain what is mean by Split - Gate Tracker.
 (b) Explain what is mean by Interlaced scanning.
 (c) List the advantages of CCD camera.
 (d) Define the terms:
 (i) Radar cross section
 (ii) Beam shape
 (e) Explain how to cancel the phase shift error in PAL.
 (f) Explain what is meant by wave trapes.
 (g) List the advantages of Cable T.V.
 (h) Draw the block diagram of SE CAM decoder.
- (8 × 5 = 40)
- II (a) Discuss in detail about the SE CAM coder.
 (OR)
 (b) (i) Explain in detail about the colour TV camera.
 (ii) Write a short note on the colour signal transmission.
- III (a) Draw the block diagram of television receiver and explain.
 (OR)
 (b) Write short notes on:
 (a) Synchronizing pulses.
 (b) Blanking pulses.
- IV (a) (i) Discuss in detail about continuous wave radar
 (ii) Compare various tracking system.
 (OR)
 (b) (i) Draw the block diagram of Non-coherent MTI radar and explain the principle of each block.
 (ii) Briefly explain various application of radar.
- V (a) (i) Explain in detail about the cable T.V.
 (ii) Write short notes on NTSC standard
 (OR)
 (b) (i) Discuss in detail about the Cable decoders.
 (ii) Write short notes on cable distribution system.

(4 × 15 = 60)