(Pages: 2)



Reg. No.:	
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Name :

Eighth Semester B.Tech. Degree Examination, April 2015 (2008 Scheme)

08.802 : RADAR AND TELEVISION ENGINEERING (T)

Time: 3 Hours

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PART-A

Answer all questions. Each question carries 4 marks:

- 1. What is CW Radar? Explain.
- 2. Explain the use of delay line canceller in Radar systems.
- 3. How do you provide a low noise front-end in radar receivers?
- 4. What are marker beacons in navigation systems?
- 5. Draw the frequency spectrum for VSB signal.
- 6. What is AGC? In which part of the TV receiver, it is used?
- 7. Briefly explain about SECAM.
- 8. How do you digitize a video signal?
- 9. What is digital TV over IP?
- 10. Compare the performance of LCD and LED TV.

PART-B

Answer any two questions from each Module. Each question carries 10 marks:

Module - 1

- 11. Derive an expression for the Radar equation with suitable assumptions.
- Draw the block diagram of a Radar receiver and explain the functions of each block.
- With an appropriate diagram, explain the working principle of an ILS for an air craft.





Module - 2

- 14. With neat sketch explain about the composite video signal for the Indian standard for TV broadcasting and mark the time periods.
- 15. Draw the block diagram of a PAL receiver and explain about each subsection.
- 16. a) Briefly explain about the sync separation circuit in a TV receiver.
 - b) Explain how you separate sound in a TV receiver.

Module - 3

- 17. With a block diagram, explain how a digital TV signal is received through satellites.
- 18. Explain how OFDM technique is used for terrestrial digital TV. Illustrate with an appropriate diagram.
- 19. Write short notes on :
 - a) Compression of frames
 - b) Plasma TV
 - c) QAM.

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