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Reg. No. : .....

Name : .....

Eighth Semester B.Tech. Degree Examination, December 2017
(2008 Scheme)
08.802 : RADAR AND TELEVISION ENGINEERING (T)

Time : 3 Hours Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks. **(10×4=40 Marks)**

1. Explain briefly the different types of displays.
2. What is receiver noise figure ?
3. Explain the different methods of navigation.
4. Explain briefly the different types of mixer.
5. Explain the need for synchronization.
6. Explain the principle of operation of CCD camera.
7. Explain colour killer circuit.
8. List the need and types of AGC circuits used in TV systems.
9. What is DVB-C standard ? Explain.
10. Discuss the advantages of LCD panels.

PART – B

Answer **any two** questions from **each** Module. **Each** question carries **10** marks. **(6×10=60 Marks)**

Module – I

11. Explain the working of radar with a block diagram.
12. Explain the operation of MTI radar with a neat block diagram.
13. Describe the operation of instrument landing systems.

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Module – II

14. Calculate the vertical resolution, horizontal resolution and modulating frequency for a 625-line TV system with a kell factor of 0.69 and aspect ratio of 4 : 3.

15. Draw the sketch of composite video signal indicating the numerical values for different timings used in CCIR-B standard.

16. Explain the operation of SECAM encoder and decoder with neat diagrams.

Module – III

17. Discuss the features of the following video compression techniques.
    a) MPEG-2
    b) MPEG-4.

18. What are the features of IP TV ? Explain the architecture of IP TV.

19. Describe the construction and working of plasma display with help of a neat diagram.