



Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, January 2018
(2013 Scheme)
13.802 : ENTERTAINMENT ELECTRONICS TECHNOLOGY (T)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions briefly. **Each** question carries **2** marks.

1. What are the merits and limitations of crystal microphones ?
2. Give the significance of impedance matching when loudspeakers are used.
3. List the functions of the tracking-error signal.
4. Differentiate between acoustically dead room and acoustically live room.
5. How interlaced scanning helps in improving the quality of the image ?
6. Why VSB is used for the transmission of TV picture signals ?
7. Why (G-Y) difference signal is NOT used for transmission ?
8. Why glasses are necessary to watch 3D images ?
9. Briefly explain the principle of RGB dynamic LED.
10. Differentiate between transmissive type and reflective type projection systems. **(10×2=20 Marks)**

PART – B

Answer **any one full** question from **each** Module. **Each full** question carries **20** marks.

Module – I

11. A) With neat sketches, explain the construction, principle of working and applications of Electret microphones. **12**
- B) How a passive cross-over network works in a loud speaker system ? **8**

OR

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12. A) Explain different types of baffles. How infinite baffles are evolved ? 12
B) Compare a folded horn system with a corner-folded horn system. 8

Module – II

13. A) Explain the principle of audio recording and reproduction from a CD. 12
B) Explain the principle of digital audio broadcasting. 8

OR

14. A) Explain the principle of MP3 player. 10
B) How compression and expansion of audio signal is done ? Explain. 10

Module – III

15. Describe the merits and applications of a CATV system. Draw a typical layout of this system of signal distribution. Label and explain the functions of all the blocks. Why are amplifiers and equalizers required along with trunk distribution lines ?

OR

16. With neat sketches, explain the working of monochrome and colour TV cameras. How the colour difference signals for transmission are derived ?

Module – IV

17. Explain the principle of Plasma Colour TV screens. How the video signal for the same is processed ? Compare it with LED and LCD screens.

OR

18. With necessary diagrams, explain the DLP projection system. Explain the important features and applications. (4×20=80 Marks)
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