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H-2937

Reg. No. : .....

Name : .....

**Eighth Semester B.Tech. Degree Examination, November 2019**

**13.802 ENTERTAINMENT ELECTRONICS TECHNOLOGY (T)**

**(2013 Scheme)**

Time : 3 Hours

Max. Marks : 100

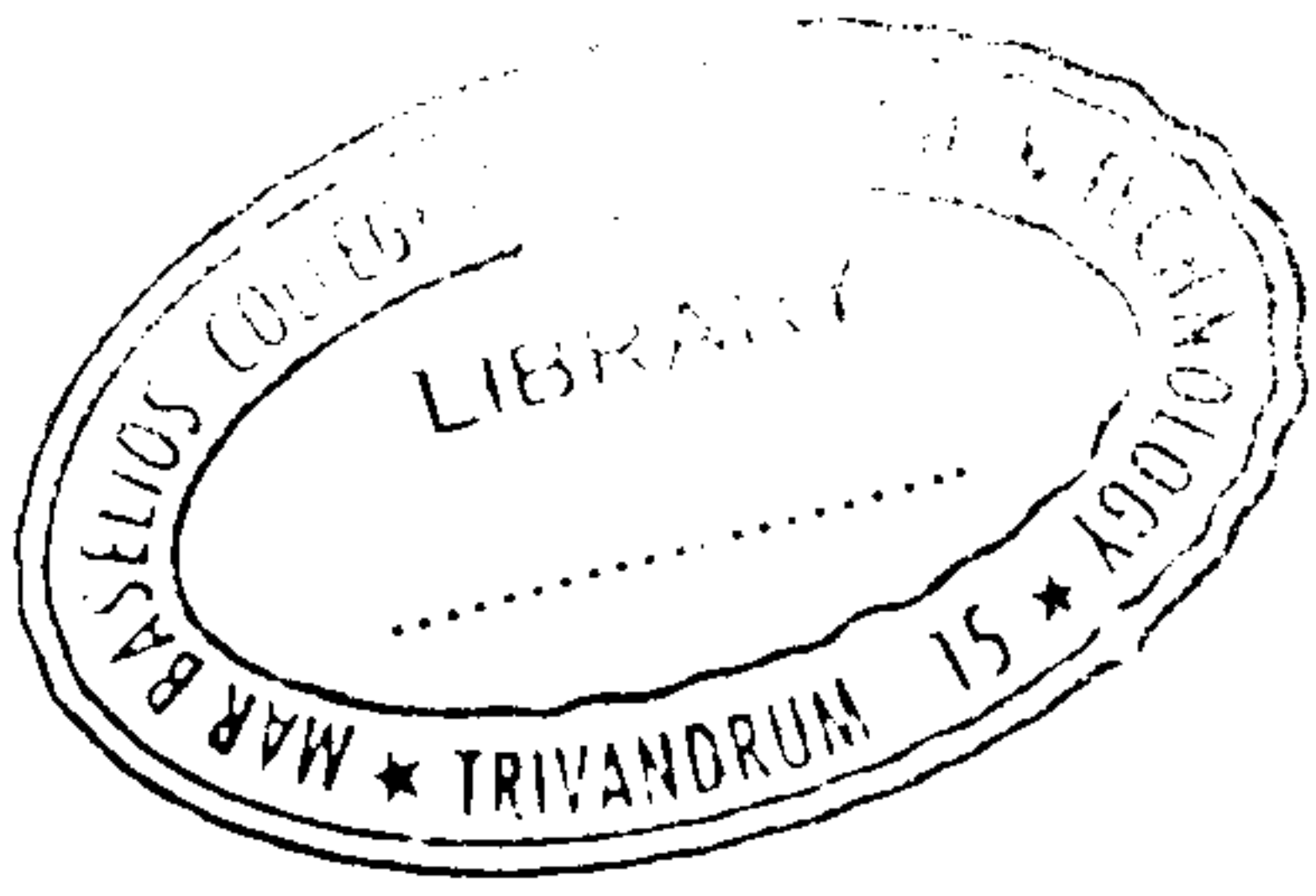
PART – A

*(Answer **all** questions. Each question carries 2 marks)*

1. State the necessity of impedance matching in electronic systems.
2. Compare cone type and horn type speakers.
3. Give the function of woofers and tweeters.
4. What do you mean by high fidelity system?
5. Define channel coding. Why it is used?
6. Define a composite video signal? Why is used?
7. How chrominance signal is represented TV systems Give expressions.
8. What is the need for video compression? Name few compression standards.
9. Mention the technology behind HDTV.
10. What are the various types of LED TVs? Compare.

P.T.O.





## PART – B

(Answer any **one** questions from module . Each questions carries **20** marks)

### Module – I

11. (a) Explain the working principle of moving coil microphone (8)  
(b) Compare various types of microphones (12)
12. (a) Explain the working principle of an electro-dynamic loud speaker. Mentions its advantages and disadvantages (10)  
(b) With circuit and characteristic curves, explain the need and application of cross over networks. (10)

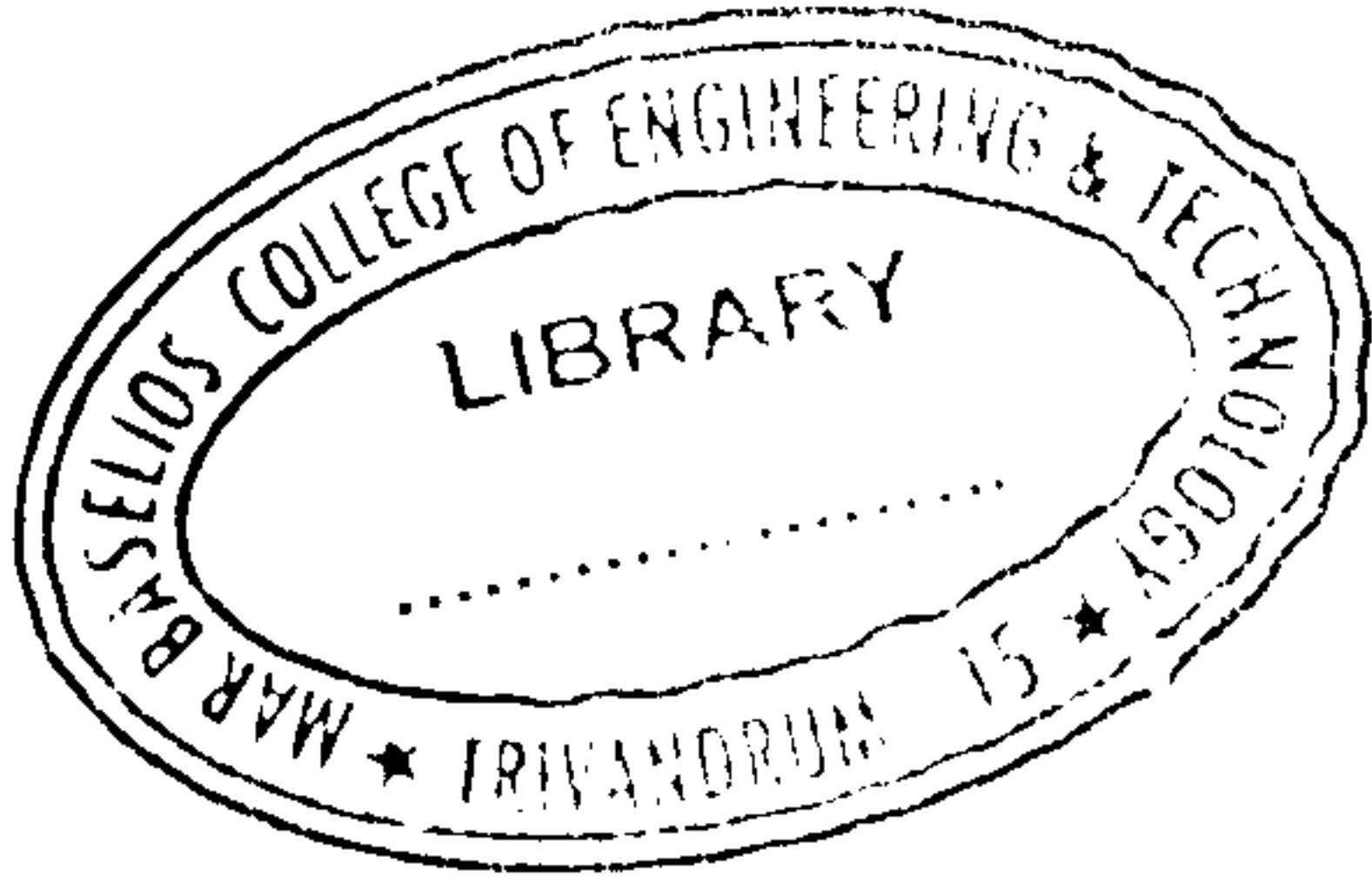
### Module – II

13. (a) With diagrams, explain the method of optical recording on compact disc. (10)  
(b) With a block diagram, explain high fidelity system. Give examples. (10)
14. (a) Explain the play back process from a compact disc (10)  
(b) Explain various digital audio processing methods. Mention its advantages. (10)

### Module – III

15. (a) Illustrate interlaced scanning and vestigial side band modulation in TV. (10)  
(b) Describe the working and characteristics of vidicon camera tube. (10)
16. (a) Explain the signal quantization and encoding in a digital TV system. (10)  
(b) With neat block diagram, explain DTH system. (10)





#### Module – IV

17. (a) What are the features of plasma display? Explain the working of Plasma TV system (10)
- (b) Compare Plasma TV, LCD TV and LED T.V (10)
18. (a) Write a note on home theatre. What are the factors to be considered for designing a home theatre? (10)
- (b) Discuss about transmissive and reflective type projection systems. Explain its relevance in a practical scenario. (10)
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