

GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI
(An Autonomous Institute of Government of Maharashtra)

Class Test- I
Time: 1 Hour

Subject: Audio and Video Engineering

Course Code: ETU602

Date: 28/01/2016

Marks: 15

Solve any THREE

Q.1 List the requirement to produce Hi-Fi(High Fidelity) sound and explain the concept of Hi-Fi.

Q.2 With the help of suitable diagram explain Compact Disc (CD) recording and reproduction (Optical Recording).

→ Q.3 Explain the different types of hearing aids. and what are the controls associated with hearing aids?

→ Q.4 How does the ribbon microphone differ from the dynamic microphone? Explain

→ Q.5 What are the functions of telephone exchange? Also discuss the services available to the subscriber of telephone exchange.

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Date: 23/01/2017

Course Code: ETU602
Marks: 15

Solve the following.

- Q.1 What are the characteristics of microphone? Explain. Also explain the significance of polar diagram. 04
- Q.2 Why the efficiency of an indirect radiating loudspeaker is greater than that of direct radiating loudspeaker? 02
- Q.3 Draw and explain the three way cross over network. Why the multispeaker system is required? 03
- Q.4 Explain optical recording and reproduction in detail. 04
- Q.5 Explain the different types of hearing aid. 02

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VI Semester B. Tech.
(Electronics and Telecommunication)
CT- I
Summer – 2020

Course Code: ETU602 Date: 05.02.2020
Course Name: Audio and Video Engineering

Time: 1 Hrs. Max. Marks: 15
Instructions to Candidate

- 1) Solve any One from question no. 1 and Two from question No. 2, 3 and 4.
- 2) Assume suitable data wherever necessary and clearly state the assumptions made.
- 3) Diagrams/sketches should be given wherever necessary.
- 4) Figures to the right indicate full marks.

1.	a)	i) Explore how does an electret microphone differ from a capacitor microphone?	03
		ii) In which microphones is a built-in transformer a necessary and why?	02
	b)	i) Analyze impedance matching with suitable example.	02
	7	ii) Converse the action of an infinite baffle. How can an enclosure act as infinite baffle?	03
2.		Elucidate with neat circuit diagram how the active tone control circuit plays the role in any audio system.	05
3.		Depict the various steps involved in making compact disc and in reconstruction of audio signal.	05
4.		i) Describe the services available to subscribers of telephone exchange.	03
		ii) Contrast: Pulse dialing and DTMF dialing.	02