

4/H-82 (x) (Syllabus-2015)

(2)

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(July)

MEDIA TECHNOLOGIES

(Honours)

(Sound for Media-I)

(MTH-402)

Marks : 38

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

1. Write short notes on the following : $2 \times 5 = 10$
 - (a) Radio waves and transverse waves
 - (b) Reverberation and Echo
 - (c) LED meter and VU meter
 - (d) XLR and RCA connectors
 - (e) Equalizers and Filters

2. How is sound produce? Explain the dual nature of sound with example. Define the different characteristics of a sound wave and the medium in which it can travel. $2+2+3=7$

Or

Define the thresholds of hearing and threshold of pain. Explain the mechanism of human hearing with the help of a neat diagram. $3+4=7$

3. What is acoustics? How will you acoustically treat a room? What are the various types of absorbers used in acoustic treatment? $1+3+3=7$

Or

State from your experience what are the different types of noises one is likely to encounter everyday. How would you classify these noises in terms of their ranges and frequencies? $3+4=7$

4. What is a microphone? Explain the construction and operation of a condenser microphone with the help of a diagram. Write the three advantages of a wireless microphone. $1+4+2=7$

Or

Describe the studio sound chain and its various components highlighting the importance of an audio mixer. What are the different types of audio connectors? $4+3=7$

(3)

5. What is digital audio? Explain the process of analogue to digital conversion (A/DC). Give the advantages of this new technology.

1+4+2=7

Or

What is a loudspeaker? Mention the different types of loudspeakers that are available. Differentiate between a mono, stereo and 5.1 surround sound.

1+2+4=7

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