4/H–82 (x) (Syllabus–2015)

2 0 2 1

(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 : 2×5=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

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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