

**2022**

**(May/June)**

**MEDIA TECHNOLOGIES**

**( Honours )**

**( Sound for Media—I )**

**[ MTH-402 ]**

**Marks : 38**

**Time : 3 hours**

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

1. Write short notes on the following : 2×5=10
  - (a) Channel and Track
  - (b) Electromagnetic waves and Longitudinal waves
  - (c) Parabolic mic and Lapel mic
  - (d) Background score and Silence
  - (e) Amplifiers and Equalizers
2. Digital audio transmission is taking over the old style of broadcasting. Elucidate. Comment on the role of radio jockeys in today's radio scenario. 4+3=7

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How is speech different from voice? Explain the different parts of a human body, which are responsible for voice production with a diagram. Define pitch, volume and timbre.

2+3+2=7

3. What is a transducer? Explain the working and construction of a dynamic microphone with a neat sketch. Give three advantages of a dynamic microphone.

1+4+2=7

Or

Which is the most widely used signal processor? Why is equalization needed during recording and during playback? What are the different types of EQ?

1+4+2=7

4. How is multi-track recording achieved? Give the advantages of multi-track recording.

Explain in detail about the various functions of an audio mixer with a neat sketch.

2+5=7

Or

What is the part played by a cable and a connector in sound recording? Mention the most widely used connectors in professional audio recording.

What is impedance matching and microphone sensitivity? 1+4+2=7

5. Describe the different elements of sound in audio production. What are the rules to be kept in mind for radio production? What is the role of a sound recordist? 4+2+1=7

Or

What is a noise reduction system? Mention the different Dolby systems that are available. Differentiate between a mono, stereo, 3.1 and 5.1 surround sound. 1+2+4=7

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