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Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



V SEMESTER B.TECH (PRINT AND MEDIA TECHNOLOGY)

MAKE-UP EXAMINATIONS, DEC 2015 – JAN 2016

SUBJECT: SOUND ENGINEERING [PME 319]

REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data may be suitable assumed.

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| 1A. Compare the advantages and disadvantages of Omnidirectional and unidirectional microphones. | 03 |
| 1B. Explain the guidelines to be followed when miking a person for radio. | 03 |
| 1C. With neat diagram explain 4 stereo mic placement techniques. | 04 |
| 2A. Explain the working of a compact disc. | 03 |
| 2B. How sound is divided based on frequency range? | 03 |
| 2C. Explain the following :
a) Different types of recording studios
b) Different areas in a recording studio | 04 |
| 3A. With a help of a diagram explain the working of tape recorder heads. | 03 |
| 3B. Explain the different ways to acoustically treat a room. | 03 |
| 3C. Explain the characteristics of a microphone. | 04 |
| 4A. With the help of a diagram show the construction of a moving coil speaker driver. | 03 |
| 4B. What is anti-aliasing? Explain the different methods used for anti-aliasing. | 03 |
| 4C. Explain the causes of tape Deterioration. | 04 |

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- 5A.** With the help of a diagram explain the guidelines to be followed in the construction of framed walls that have high transmission losses. **03**
- 5B.** What are the equipment's required to record with MIDI? **03**
- 5C.** Explain the different properties of a sound wave. **04**
- 6A.** What is cochlea? What are the different parts of Cochlea? **03**
- 6B.** What is Dolby noise reduction? How does it work? **03**
- 6C.** With the help of a diagram explain the construction of a compact disc. **04**