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# Manipal Institute of Technology, Manipal

(A Constituent Institute of Manipal University)



## V SEMESTER B.TECH (PRINT AND MEDIA TECHNOLOGY) END SEMESTER EXAMINATIONS, NOV/DEC 2015

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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|------------|--|-----------|
| <b>1A.</b> | Explain the Mic booming technique and its types.   | <b>03</b> |
| <b>1B.</b> | What is PCM? Explain the steps involved in PCM.  | <b>03</b> |
| <b>1C.</b> | List the parts of a tape deck. Explain the working of a tape machine.  | <b>04</b> |
| <b>2A.</b> | What are the functions of the different parts present in the middle ear?   | <b>03</b> |
| <b>2B.</b> | With a help of a diagram explain any A-B miking techniques.  | <b>03</b> |
| <b>2C.</b> | What are the important factors to consider when choosing a metal for cables?   | <b>04</b> |
| <b>3A.</b> | What are acoustic echo chambers? Explain the different ways to get an echo chamber effect.                                       | <b>03</b> |
| <b>3B.</b> | What is a wave? Explain different types of waves.  | <b>03</b> |
| <b>3C.</b> | With the help of a diagram explain the construction of a compact disc.   | <b>04</b> |
| <b>4A.</b> | Explain the frequency response of a microphone with the help of a diagram.   | <b>03</b> |
| <b>4B.</b> | What is the difference between a professional studio and a semi pro studio?<br>List the equipment present in a recording studio. | <b>03</b> |
| <b>4C.</b> | Explain the elements of communication.   | <b>04</b> |
| <b>5A.</b> | Explain the merits and demerits of an analog recording system.   | <b>03</b> |
| <b>5B.</b> | What are studio monitors? Explain different types of studio monitors?  | <b>03</b> |
| <b>5C.</b> | Why is the sound proofing of floors important in a studio? What are the different methods of sound proofing floors?              | <b>04</b> |

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- 6A.** What is anti-aliasing? Explain the different methods used for anti-aliasing. **03**
- 6B.** Explain the process of making a vinyl record? **03**
- 6C.** What are the things to consider when buying a microphone? **04**