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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

V SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)

END SEMESTER EXAMINATIONS, NOV/DEC 2016

SUBJECT: SOUND ENGINEERING [PMT 3104]

**REVISED CREDIT SYSTEM
(29/11/2016)**

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer ALL the questions.
- ❖ Missing data may be suitable assumed.

- 1A. Explain the process of transmission loss.
- 1B. What is the mix down? List the steps to Recording and Mixing Vocals.
- 1C. Explain the advantages and disadvantages of the following :
 - a. Omnidirectional
 - b. Unidirectional microphones

[02 + 03 + 05]
- 2A. What are acoustic echo chambers? What are the ways to get echo chamber effects?
- 2B. With the help of a neat diagram explain "phase."
- 2C. Draw a neat diagram of the cross section of the cochlea explain the parts.

[02 + 03 + 05]
- 3A. What are factors effecting the quality and storage of the tapes?
- 3B. What are preamps? What are the things to consider when buying a pre amp?
- 3C. Explain the steps involved in the Post-Production of audio.

[03 + 03 + 04]
- 4A. Explain the digital audio recording process.
- 4B. Draw a neat diagram and label the parts of a tape deck.
- 4C. Explain the working of a Compact Disc.

[02 + 03 + 05]

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- 5A.** Explain the Mid-side Stereo miking technique.
- 5B.** What are binary numbers? Calculate the representations for a 32-bit number.
- 5C.** With a neat diagram show the balance and off balance in control room design.

[02 + 03 + 05]