



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

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

END SEMESTER MAKE-UP EXAMINATIONS, DEC/JAN 2016-17

SUBJECT: SOUND ENGINEERING [PMT 3104]

REVISED CREDIT SYSTEM
(31/12/2016)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

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

1A. Explain any 5 simple solutions to cut down computer noise.

1B. Explain the following.

- a. Nyquist Theorem
- b. Nyquist rate
- c. Oversampling

1C. Explain any 5 types of stereo miking techniques.

[02 + 03 + 05]

2A. Explain Symmetry in control room design.

2B. Explain the functions of any 6 rooms in a sound studio.

2C. Draw a neat diagram showing the usage of U-Boat floaters in sound proofing.

[02 + 03 + 05]

3A. What are the Factors effecting the quality and storage of the tapes.

3B. What are preamps used for? What are the different classification of Preamps based on Aesthetics?

3C. What are the advantages of digital audio over analogue Audio?

[03 + 03 + 04]

4A. Explain audio sampling.

4B. What is the mix down? List the steps to Recording and Mixing Vocals.

4C. With a neat diagram explain the parts of middle ear.

[02 + 03 + 05]

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- 5A.** What are the guidelines to be followed when miking a person for radio?
- 5B.** Explain the different parts of an active noise cancelling headphone.
- 5C.** Draw a neat diagram showing the usage of U-Boat floaters in sound proofing.

[02 + 03 + 05]