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V SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY) END SEMESTER EXAMINATIONS, NOV 2018

SUBJECT: SOUND ENGINEERING [PMT 3104]

REVISED CREDIT SYSTEM (23/11/2018)

Time: 3 Hours MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- Missing data may be suitably assumed.
- **1A.** Explain the following:
 - a. Rhythm
- b. Timbre
- c. Order
- d. Tempo
- **1B.** With the help of a neat diagram explain "phase."
- **1C.** Draw a neat diagram of the cross section of the cochlea explain the parts.

[02 + 04 + 04]

- **2A.** Explain the importance of the 3 things that can happen to sound generated in a given space.
- **2B.** What are the negative effects of not considering the following parameters when buying a microphone:
 - a. Pickup patterns

- b. Microphone Size
- c. Microphone Connector type
- d. Power Source Needed
- **2C.** What are the important characteristics of microphones for professional use?

[02 + 04 + 04]

- **3A.** Explain different types of preamps based on form factor.
- **3B.** With a neat diagram explain the working of an electrostatic microphone.
- **3C.** Explain the characteristics of the studio monitors which are ideal for a control room with a dimension of 6ft X 6ft.

[02 + 04 + 04]

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- **4A.** What are leader tape? What are the negative effects of not having a leader tape?
- **4B.** What are factors effecting the quality and storage of the tapes?
- **4C.** Explain the following.
 - a. Nyquist Theorem
- b. Nyquist rate

Oversamplings

[02 + 04 + 04]

- **5A.** Explain boom miking and its techniques.
- **5B.** Explain 4 types of Stereo miking techniques
- **5C.** What are the guidelines to be followed when miking a person for radio?

[02 + 04 + 04]

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