



**V SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)**  
**END SEMESTER MAKE-UP EXAMINATIONS, DECEMBER 2019**  
**SUBJECT: SOUND ENGINEERING [PMT 3104]**  
**REVISED CREDIT SYSTEM**  
**(24/12/2019)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

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

- 1A.** Explain the following: a) Wavelength      b) Timbre
- 1B.** With the help of a neat diagram explain the functions of the different parts present in the Inner ear.
- 1C.** What are the different elements of communication?  
[ 02 + 04 + 04 ]
- 2A.** What are the different ways to acoustically treat a floor?
- 2B.** What is the importance of Symmetry in control room design?
- 2C.** With the help of a neat diagram explain the guidelines to be followed in the construction of framed walls that have high transmission losses.  
[ 02 + 04 + 04 ]
- 3A.** With the help of a diagram show the construction of a piezo electric speakers.
- 3B.** Explain the different sections present in the input section of the Mixer.
- 3C.** Explain the different types of messages of MIDI.  
[ 02 + 04 + 04 ]
- 4A.** Explain the working of a Tape Machine.
- 4B.** Explain the different types of anti-aliasing filters.
- 4C.** Explain the following.  
a. Mirror Band      b. Program Area      c. Clamping Ring      d. Stacking Ring  
[ 02 + 04 + 04 ]
- 5A.** List the advantages and disadvantages of Directional mic in speech recording.
- 5B.** What are the advantages of digital audio over analogue audio?
- 5C.** Explain different types miking for vocals and speech.  
[ 02 + 04 + 04 ]