



### V SEMESTER B.TECH. (MEDIA TECHNOLOGY)

### END SEMSTER EXAMINATIONS, JANUARY 2021

### SUBJECT: SOUND ENGINEERING [MED 3153]

### REVISED CREDIT SYSTEM (30/01/2021)

Time: 3 Hours

MAX. MARKS: 50

#### Instructions to Candidates:

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

1A.	Explain the importance of the elements of communication.
1B.	Explain the variables of the sound envelope with an example of a fog horn.
1C.	If the speed of sound changes by 0.6m/s for every 1-degree Celsius change in the temperature, calculate the difference between the speed of sound in m/s, when it is travelling through air and the temperature is 22.5 degree Celsius and 31.5 degree Celsius respectively.
	[ 02 + 04 + 04 ]
2A.	<p>Explain the Origin and Uses of the graph given below.</p>
2B.	With the help of a neat diagram explain the working of a carbon granule

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	microphone.
<b>2C.</b>	Explain the characteristics of 4 digital cables.
	[ 02 + 04 + 04]
<b>3A.</b>	What is 'velocity' in digital sound? Explain its importance.
<b>3B.</b>	With a neat diagram show the signal chain of a MIDI.
<b>3C.</b>	Explain the process of making a Vinyl records.
	[ 02 + 04 + 04]
<b>4A.</b>	What are the things to be considered when buying a turntable?
<b>4B.</b>	Explain the best and the worst type of monitors for a 7 feet X 7 feet sound studio.
<b>4C.</b>	Explain the steps involved in the digitalization of sound.
	[ 02 + 04 + 04]
<b>5A.</b>	Explain any 4 steps involved in Post-Production of sound.
<b>5B.</b>	Explain the different miking systems used for stereo recording.
<b>5C.</b>	Explain the working of a CD.
	[ 02 + 04 + 04]