Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **14MT2003** | **Duration :** | **3hrs** |
| **Sub. Name :** | **AUDIO ENGINEERING** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | List out the types of transducers which acts as a source of audio production. | CO1 | 15 |
| b. | Discuss the importance of Audio Mixer in Production. | CO1 | 5 |
| **(OR)** | | | | |
| 2. |  | Discuss on the connectors and cables in audio and briefly explain their working along with diagrams. | CO1 | 20 |
|  |  |  |  |  |
| 3. | a. | Discuss the Pickup Patterns on the Microphones in detail with diagrams. | CO1 | 15 |
| b. | Elaborate on Amplifier and Power amplifier. | CO2 | 5 |
| **(OR)** | | | | |
| 4. | a. | Elaborate on the working of Human Ear. | CO1 | 10 |
| b. | Summarize on Equalizer. | CO2 | 10 |
|  |  |  |  |  |
| 5. | a. | Discuss on the types of Audio Consoles. | CO2 | 10 |
| b. | Differentiate Full Range speaker and Crossover. |  | 10 |
| **(OR)** | | | | |
| 6. | a. | Elaborate on the working of transducers which converts electrical signals to acoustic signals and illustrate their construction. | CO2 | 10 |
| b. | Summarize on Low Frequency horns . | CO2 | 10 |
|  |  |  |  |  |
| 7. |  | Discuss your understanding on audio quality based on their bit rate andsample rate. | CO3 | 20 |
| **(OR)** | | | | |
| 8. |  | Elaborate on LSR. | CO3 | 20 |
|  | | **Compulsory**: |  |  |
| 9. |  | Reckon the file size of an audio file with sample rate is 44.1khz and bit resolution is 16 bitand it goes for 3 minutes and is in stereo. | CO2 | 20 |