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



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

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|  |  |  |  |
| **Code :** | **14MT2033** | **Duration :** | **3hrs** |
| **Sub. Name :** | **DIGITAL AUDIO EFFECTS** | **Max. Marks :** | **100** |

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

|  |  |  |  |  |
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| **Q. No.** | **Sub Div.** | **Questions** | **Course Outcome** | **Marks** |
| 1. |  | Elaborate in detail about the fundamentals of digital signal processing and its influence in production of DAFX. | CO1 | **20** |
| **(OR)** | | | | |
| 2. |  | List out the different filters based on time and their working with illustrations. | CO1 | **20** |
|  |  |  |  |  |
| 3. |  | Summarize on modulators and demodulators. | CO2 | **20** |
| **(OR)** | | | | |
| 4. |  | Illustrate and summarize on delay based audio effects. | CO2,3 | **20** |
|  |  |  |  |  |
| 5. |  | What is spatial audio and explain the different spatial effects. | CO2 | **20** |
| **(OR)** | | | | |
| 6. |  | Classify sound effects techniques based on Time segment processing. | CO2 | **20** |
|  |  |  |  |  |
| 7. |  | Summarize on feedback delay networks. | CO2,3 | **20** |
| **(OR)** | | | | |
| 8. |  | Explain Pitch shifting based on Filter bank approach and Block by block approach. | CO3 | **20** |
|  | | **Compulsory:** |  |  |
| 9. |  | Briefly explain about the following:   1. Transaural Stereo 2. Ambisonics and Holophony 3. 3D Panning | CO3 | **20** |