



23146831

QP CODE: 23146831

Reg No :

Name :

**B.A DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, DECEMBER 2023**

First Semester

B.A Audiography & Digital Editing

Core Course - AE1CRT01 - SCIENCE OF SOUND

2017 Admission Onwards

F74C303A

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is amplitude of sound?
2. What is an Octave?
3. What is the speed of sound in air?
4. What is the relation between Temperature and speed of the sound?
5. Doubling the pressure gives an increase of db. Explain with equation.
6. What is decibel?
7. How wavelength is related with diffraction of sound?
8. What is mean by loudness?
9. What is frequency of sound?
10. What is ITD?
11. Explain the application of echo.
12. What is dambing?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain ultrasonic sound and infrasonic sound.
14. What is in phase and out phase? Explain with diagram.
15. What is simple and complex sound?
16. What is timber of the sound?
17. Practical application of echo.
18. What is dynamic range and frequency range of hearing?
19. What are Doppler Effect and its application?
20. How we perceive the space through sound?
21. What is early reflection?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. What is room mode? Calculate the room mode up to 3rd order of room width 15 feet length 16 feet And height 11 feet.
23. Explain hearing mechanism, with diagram.
24. Explain sound localization. Direction and space.
25. What is absorption coefficients of materials? Explain about any three materials.

(2×15=30)

