



22102324

QP CODE: 22102324

Reg No :

Name :

**B.A DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE
EXAMINATIONS, JULY 2022**

First Semester

B.A Audiography & Digital Editing

Core Course - AE1CRT01 - SCIENCE OF SOUND

2017 Admission Onwards

26111CD3

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. What is phase of sound?
2. What is over tones?
3. What is the speed of sound in air?
4. What is the relation between Temperature and speed of the sound?
5. What is sound intensity?
6. What are the names of room mode?
7. What is the minimum required distance for an echo to be produced and why?
8. What threshold of pain?
9. Which characteristic of the sound wave is related to the pitch?
10. What is ILD?
11. Explain the application of echo.
12. What is sabine's formula?

(10×2=20)

Part B

*Answer any **six** questions.*

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





13. Explain ultrasonic sound and infrasonic sound.
14. What are characteristics of sound?
15. Explain Harmonics and Octave
16. What is simple and complex sound?
17. Explain reflection and refraction of sound
18. What is masking?
19. What is Comb filter effect?
20. How we locate low frequency sound?
21. What is RT60? How we can calculate RT?

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. Explain Decibel of SPL, Voltage and Power with equation.
23. Explain hearing mechanism, with diagram.
24. How sound travels in different medium? What are the physical properties that govern the velocity of sound?
25. Design a music studio with 20 ft width, 21 ft length and 11ft height with all calculations and illustrations.

(2×15=30)

