

21102594



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Reg. No.....

Name.....

B.A. DEGREE (C.B.C.S.) EXAMINATION, OCTOBER 2021

First Semester

B.A. Audiography and Digital Editing

Core AE1 CRT 01—SCIENCE OF SOUND

(2017 Admission onwards)

Time : Three Hours

Maximum Marks : 80

Part A

*Answer any **ten** questions.
Each question carries 2 marks.*

1. Define amplitude.
2. What is wavelength ?
3. What is pitch ?
4. The unit of frequency is ———.
5. What is diffraction ?
6. What is noise ?
7. Explain bit depth.
8. Define sound pressure.
9. What is timbre ?
10. What is sound ?
11. Define standing waves.
12. What is echo ?

(10 × 2 = 20)

Part B

*Answer any **six** questions.
Each question carries 5 marks.*

13. What is Fletcher–Munson curve ?
14. Explain reverberation.
15. What is Hass effect ?
16. How are the wavelength and frequency of a sound wave related to its speed ?

Turn over





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17. Distinguish between loudness and intensity of sound.
18. Explain Doppler effect.
19. Explain how human ear works.
20. What prevents unnecessary outside sounds from entering the audio studio ?
21. In which medium, speed of sound is the highest - solid, liquid or gas ? How ?

(6 × 5 = 30 marks)

Part C

*Answer any two questions.
Each question carries 15 marks.*

22. Explain the four key characteristics of sound waves.
23. Describe the acoustic treatment and broadcast accessories needed for a music recording studio.
24. Discuss with suitable examples about the difference between intensity and loudness of sound.
25. What are the similarities and differences of reflection and refraction. Explain.

(2 × 15 = 30)

