



QP CODE: 22103270



22103270

Reg No :

Name :

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

Second Semester

B.A Audiography & Digital Editing

Core Course - AE2CRT03 - AUDIO ELECTRONICS

2017 ADMISSION ONWARDS

84349008

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

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

1. State Farady's Law.
2. What is AC current?
3. Expand CMRR.
4. What are the main controls in a parametric EQ?
5. Define RT60.
6. What is the difference in working principle of a dynamic and condenser mic?
7. What is 3:1 rule?
8. Give the formula for the force on the coil due to interaction between the current through coil and the magnetic field, in a loudspeaker.
9. What do you mean by 'baffle'?
10. Name the frequency ranges in a 4-way cross-over system.
11. Give the name of the first device which was invented to record sound.
12. What are the different tape speeds used for magnetic recording?

(10×2=20)

Part B

*Answer any **six** questions.*

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





13. What are the two main types of transformers? Explain.
14. Explain in detail, the functioning of zener diode.
15. What are the different types of 1/4 inch phone connectors? Explain.
16. What is Class A amplifier? Draw its circuit diagram.
17. Explain the importance of VU meter.
18. What are the features of a bidirectional microphone? Draw its polar pattern.
19. Describe the main parts of a loudspeaker.
20. Write a short note on the importance of speaker impedance.
21. Draw a basic diagram of a tape deck, and label and briefly explain its parts.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Explain intrinsic and extrinsic semiconductor in detail.
23. What are the main types cables used in audio? Elaborate.
24. Explain the construction and working of a condenser mic.
25. Explain the principle and working of cone-type loudspeaker. What are its characteristics?

(2×15=30)

