

QP CODE: 21103310



Reg No : .....

Name : .....

**B.A DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS,  
DECEMBER 2021**

**Second Semester**

B.A Audiography & Digital Editing

**Core Course - AE2CRT03 - AUDIO ELECTRONICS**

2017 ADMISSION ONWARDS

A8AF780E

Time: 3 Hours

Max. Marks : 80

**Part A**

Answer any **ten** questions.

Each question carries **2** marks.

1. What is the unit of electrical current?
2. What are pentavalent impurities? Give examples.
3. What is zener voltage?
4. What is a snake cable?
5. Name two devices that can alter spectral content of audio.
6. Name the three main types of microphone designs.
7. What type of mic and polar pattern is used for AB stereo technique?
8. What is the basic principle behind the working of a loudspeaker?
9. What is the function of 'spider' in loudspeaker?
10. What do you mean by directivity of speaker?
11. Who invented the device to record audio?
12. What are the advantages of digital recording over analog?

(10×2=20)

**Part B**

Answer any **six** questions.

Each question carries **5** marks.

13. How can you generate AC current? Explain.







14. Draw a graph and explain V-I characteristics of a p-n junction diode.
15. What are the characteristics of audio amplifier?
16. Explain the working of a plate reverb.
17. Explain the importance of VU meter.
18. Explain the difference between pressure-operated and pressure-gradient microphones.
19. Briefly describe the principle of cone-type loudspeaker.
20. What are the different elements that makes up a typical Hi-fi audio speaker system?
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. What is an op-amp? Describe its basic function. What are the ideal characteristics of an op-amp?
23. What are the main types cables used in audio? Elaborate.
24. Explain the different mono miking techniques which are used for audio recording.
25. Explain various speaker baffle and enclosure designs.

(2×15=30)

