

QP CODE: 21103310



Reg No

Name

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# 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?

 $(10 \times 2 = 20)$ 

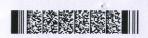
## Part B

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.

 $(6 \times 5 = 30)$ 

#### 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.

 $(2 \times 15 = 30)$ 

