QP CODE: 24020224

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Reg No : .....

Name : .....

B.A DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024

Second Semester

B.A Audiography & Digital Editing

Core Course - AE2CRT03 - AUDIO ELECTRONICS

2017 ADMISSION ONWARDS

34FA880D

Time: 3 Hours Max. Marks : 80

.

Part A

*Answer any **ten** questions.*

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

1. What is DC current?
2. What is a dopant?
3. What is an Op-amp?
4. What is a VU meter?
5. What are time-based audio effects? Give examples.
6. Define 'directional response' of a microphone.
7. What do you mean by polar pattern of a mic?
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 is a tweeter?
10. What do you mean by speaker sensitivity?
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 is the elemental structural difference between a conductor and insulator? Explain.
14. Explain the formation of p-n junction.
15. Write a short note on coaxial cable.
16. Explain the working of a plate reverb.
17. Explain the importance of VU meter.
18. Explain X/Y stereo technique.
19. Describe the main parts of a loudspeaker.
20. What do you mean by multi-way 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 do you mean by a rectifier? Explain half-wave and full-wave rectifier in detail, with suitable circuit diagrams.
23. What are the main types cables used in audio? Elaborate.
24. Explain the three main parts of a dynamic microphone and explain its working in detail.
25. Explain the principle and working of cone-type loudspeaker. What are its characteristics?

(2×15=30)