

QP CODE: 21100420



Reg No :

Name :

B.Voc Degree Examination, FEBRUARY 2021

Second Semester

B.Voc Sound Engineering

BSES204 - ANALOG AND DIGITAL AUDIO

2018 Admission Onwards

7BF00590

Time: 3 Hours

Max. Marks : 80

Part A

*Answer any **ten** questions.*

Each question carries 2 marks.

1. Who developed the very first sound recorder?
2. List out the order in which sound recording devices were developed.
3. In analog tape recording, _____ energy is converted into corresponding _____ energy, and then stored on a tape.
4. What do you mean by transport controls?
5. Write the full form of C.L.A.S.P
6. What are binary digits used in a binary system called?
7. What noise is used in the process of dither?
8. Who developed .wav format?
9. What is a DASH recording system?
10. Which is the cable used for ADAT digital connection?
11. What do you mean by 0 dBFS on a digital system?
12. Name the current latest versions of any two DAW's available.

(10×2=20)

Part B

*Answer any **six** questions.*

Each question carries 5 marks.

13. Explain Edison's tin cylinder recorder.
14. Explain how phonographic recording was done.





15. Explain the various magnetic heads present in a magnetic tape recorder.
16. What do you mean by tape speed? How is it measured?
17. Express the numbers (a) 12 and (b) 23 in binary form.
18. What is aliasing? How does it occur?
19. Briefly explain how audio is recorded on a cd medium.
20. What is ADAT? Briefly explain its features.
21. Differentiate between timecode sync and wordclock sync.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Describe the evolution of recording technology.
23. Explain in detail the process of sampling, sampling rate and the role of Nyquist theory in sampling.
24. What type of files does a DAW handle? Briefly describe popular formats.
25. Describe different types of audio processors inside digital console.

(2×15=30)

