**RECORDING TECHNOLOGIES I**

**Final Exam**

NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CRN**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***WRITE YOUR ANSWERS LEGIBLY ON A SEPERATE SHEET OF PAPER. LABEL THAT SHEET “REC TECH 1 FINAL” AND WRITE YOUR NAME IN THE CORNER. STAPLE THE ANSWERS TO THIS SHEET, WITH THIS SHEET ON THE FRONT.***

**Due to the nature of finals, these exams will not be returned.**

**This is a closed note test. Short answers. Each question is worth 2 points.**

1. Explain the difference between early reflections and reverberation in regards to room acoustics.

2. What is the average range of frequencies a human can hear?

3. Why is the speed of sound variable?

4. Explain what phantom power does, list it’s shorthand notation, and list which types of microphones require it.

5. What is comb filtering?

6. What is the Fletcher Munson Curve? (Or equal loudness contour)

7. Where do you control the signal level being sent to tape track #7, regardless of how many channels have been routed there?

8. Why is the mix fader considered a buss when a channel fader is not?

9. List all the active busses in the PCC studio console (indicate mono & stereo pairs).

10.What is the approximate wavelength of a 125 hz sound wave?

11. Which type of track do we need to use in order to record audio into Pro Tools?

12. What is it called when your brain diminishes background noise while you are focusing on something?

13. What piece of equipment do we need to use to route audio into a DAW?

14. List three common types of microphones.

15. List three common types of microphone polar patterns.

16. What is gain staging and why is it important.

17. List the seven (7) characteristics of waveforms.

18. What is the proximity effect?

19. What is a transient?

20. What is velocity sensitivity in regards to microphones and which types of mics are velocity sensitive?

21. What is impedance matching in regards to studio monitors?

22. What is the layer of magnetic tape that allows us to record onto it?

23. What is ear fatigue and how can we prevent it?

24. What is the phantom center?

*Thank you for taking Recording Tech I. It’s been a pleasure getting to know you and we hope you enjoyed the class enough to sign up for Recording Tech II. Have a great winter break! -Jeff & Lisa*