**RECORDING TECHNOLOGY I - MIDTERM EXAM**

**MUC - 223**

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

Class Date & Time\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**This is an open note test.** All future tests will be closed book, closed notes.

1. Describe the cables you see taped to the board. (6)

* Criteria: What type of connectors?
* Is this cable balanced? Is it shielded?
* What it is used for?

2. What is the approximate speed of sound? (1)

3. What two properties of an object affect the speed of sound passing through the object? (1)

4. What is the difference between a balanced and unbalanced cable in its wiring? How does this improve the signal being transmitted? (2)

5. What is the difference between a shielded and unshielded cable? How does this improve the signal being transmitted? (2)

6. What does Timbre mean? (1)

7. Define the following terms (5)

A. Hertz

B. RMS

C. Reverberation

D. Phase

E. Console or Studio Neutralization

8. How do humans perceive the direction of a sound source? (1)

9. What is the frequency range that most humans can perceive sound waves? (1)

10. What are the seven characteristics of a waveform? (7)

11. List the "POWER ON" sequence for the PCC studio and state why is it necessary? (1)

12. What causes masking and shading of instruments in a mix? (2)

13. Calculate the wavelength of a sine wave at 2400hz. Show work. (1)

14. What is a buss and what do all buses have in common? (1)

15. What is the difference between acoustic diffusion and acoustic absorption? Which is better for dealing with lower frequencies and why? (2)

16. Why do we need to use a DI box to route an instrument into a preamp? List the two effects of using a DI box. (1)

17. What is phase cancellation/destructive phase? (2)