Physics 3100: Example Exam Chapters 31-46
Real Date 14 December 2001
8 Instrument descriptions each worth 8 points

For each instrument tell how the vibration is excited, what is vibrating, what is resonating with the vibrator, what is the radiator, and how the pitch is varied.

Bassoon

Trumpet

Piccolo

Viola

Guitar
Hammered Dulcimer

Bass Drum

Bell

9 short answers worth 4 points each

1. What is the difference between an electric and electro-mechanical instruments?

2. How is sound stored on magnetic tape?

3. Why does quadraphonic sound not sound much better than stereo sound?
4. What are the disadvantages of digital audio?

5. For film explain how sound is recorded and played back.

6. For magnetic tape explain how sound is recorded and played back.

7. Give two design features of speakers that improve their reproduction of treble sounds.

8. Compare and contrast the sound level of instruments within the same family.

9. How are different tone qualities produced on a guitar?
Physics 3100: Final Comprehensive Exam
Date 14 December 2001
16 short answer questions worth 5 points each
Taken from Real and Example Exams 1 and 2.

2 Problems each worth 10 points
Taken from Real and Example Exams 1 and 2.