

Final Project:  
EEG

YOUR NAME:

YOUR SID:

YOUR PARTNER'S NAME:

YOUR PARTNER'S SID:

Score: \_\_\_/200

# Electroencephalograph (EEG)

## Checkoff Sheet

If you can confirm that your EEG responds correctly to your test signal source, than demonstrate it to your GSI for approval. Please do the measurement and fill in the table below for the whole EEG circuit. Peak-to-peak value of input refers to the real input to the instrumentation amplifier stage, and should be in the range of  $\mu\text{V}$ ~10s  $\mu\text{V}$  depending on the gain of the circuit.

Frequency	Peak-to-peak value of input	Peak-to-peak value of output	Gain/Attenuation Factor	Gain/Attenuation in dB
DC				
1 Hz				
3 Hz				
10 Hz				
30 Hz				
50 Hz				
60 Hz				
70 Hz				
100 Hz				
300 Hz				
1000 Hz				

Voltage Reg: 15 pts

Instrumentation Amp: 25 pts (15 pts if it partially works with some glitches)

DC Block: 10 pts

Active LPF: 20 pts

Notch Filter: 20 pts

Data Table: 5 pts

Final Product (test on Professor Maharbiz's head): 5 pts
