Homework rubric

Total points: 7

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| **Item** | **Max value** | **Value given for** | **Deductions for** |
| Question 1 – design experiment | 1 | * Question is meaningful, not superficial * Experiment is clearly described and plausible * Ethical and safe * Expected outcome clear * Experiment is relevant to the topic of that unit | * Major factual inaccuracies * Goal or methods unclear * Unsafe or unethical * No clear expected outcome, or expectation inaccurate * Experiment does not address topic of unit * Is an engineering design, not a scientific experiment |
| Question 2 – design device | 1 | * Design addresses meaningful need * Clear biological rationale and target in nervous system * Engineered component list comprehensive and plausible * Users, safety, and ethical use clear * Includes limitations of design | * Major factual inaccuracies * Goal or methods unclear * Biological target unclear or implausible * Missing key components * No clear user base * Safeguards unclear * Is a scientific experiment, not an engineering design |
| Question 3 – questions from unit | 1 | * At least one specific question * Relevant to the material from this unit * Question is not obvious or was answered in lectures | * Question is vague * Question is not relevant to this unit * Question was clearly answered in lectures |
| Question 4 – explanation to classmate | 1 | * Explanation is clear, concise, and relevant * Effective use of diagrams if applicable * Relevant to this unit | * Major factual inaccuracies * Vague or rambling * Does not link to other context from lectures * Does not use the correct vocabulary |
| Overall - ethics | 1 | * Integrates ethics into answers as relevant and at least once per assignment * Clear logic in ethical choices | * Does not address ethics where concerns present * Ethical choices or logic behind them unclear |
| Overall - content | 1 | * Demonstrates overall understanding of material * Science or engineering thinking demonstrated | * Major factual inaccuracies * Lack of critical thinking about material from week |
| Overall – readability and presentation | 1 | * Concise, highlights key points, clear logic * Clear grammar, appropriate word choices * Legible | * Vague * Missing sections * Meandering or off-topic * Poor word choices * Illegible\* |