RCET 0253 Linear Regulators & Switch Mode Power Supplies

Lab 10 Check-Off Sheet

Student Information

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| Name |  | Start Date |  |

Check-Offs

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| Action item | Date (DD/MM/YY) | Status | Instructor Initials |
| 1. LM317 Linear Regulator Specifications |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 2. LM317 Linear Regulator Fixed Voltage |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 3. LM317 Linear Regulator Variable Voltage |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 4. LM317 Linear Regulator Fixed Current |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 5. LM317 Linear Regulator Variable Current |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 7. Heatsink Calculations |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 8. Heatsink power dissipation measurement |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 9. Discrete Unregulated SMPS - BUCK SMPS PWM verification (5v to 25v) with 1KΩ load |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 10. Discrete Unregulated SMPS - BUCK SMPS design and measurement at 1amp |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 11. Discrete Regulated SMPS – TL494 Specifications, Functions, & Demo. |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 12. Discrete Regulated SMPS – TL494 Fixed Voltage Regulation |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 13. Discrete Regulated SMPS – TL494 Variable Voltage 5V to 25V Regulation |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 14. MC34063ACN – Specifications and Functions |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 15. MC34063 – Buck Circuit with 30V input |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 16. MC34063 – Boost Circuit with 5V input |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |
| 17. MC34063 – Inverter Circuit with 5V input |  | 🞏 Satisfactory 🞏 Unsatisfactory |  |

Check-Off Redo

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| (write in Action Item!) | Date (DD/MM/YY) | Status | Instructor Initials |
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