Name

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| **Task\Band** | **Top** | **Middle** | **Lower** | **Notes** |
| Brief | Needed | Needed | Needed |  |
| Specification | 3 qualitative  3 quantitative  2 of which measurable with tolerances | 2 qualitative  2 quantitative  1 of which realistic and measurable | 4 parameters in total either qualitative or quantitative |
| Flow chart | Flowchart that is annotated with predictions of behaviour | Flowchart that is annotated | Flowchart partially annotated |  |
| Program | Inputs used to control outputs.  5 or more port bits used.  10 different commands including conditional and unconditional branching | At least 1 Input used to control at least 1 output.  4 or more port bits used.  7 different commands including conditional and unconditional branching | Uses at least 3 port bits  4 or more different commands including 1 conditional **or** unconditional branching |
| Testing of assembly | Full account of assembling the program fully recording the results of testing for and removal of syntax error | Account of assembling the program recording the results of testing for and removal of syntax error | Limited account of assembling the program partial record of results of testing for and removal of syntax error |

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| --- | --- | --- | --- | --- |
| Circuit diagram | Accurate circuit diagram | Accurate circuit diagram | Circuit diagram |  |
| Circuit layout | Very well organised  **All** wires arranged vertically/horizontally. | Fairly well organised  **Most** wires arranged vertically and horizontally | Not well organised or incomplete |
| Testing of physical system | Results and analysis of the testing of the physical system | Some results and analysis of the testing of the physical system | Partially tested the physical system with superficial analysis of results. |
| How well it works | Worked consistently and reliably | System mainly worked | System worked at some time |
| Evaluation | Critical and objective evaluation by comprehensive comparison of results with design specification | Objective evaluation by some comparison of results with design specification | Simple evaluation by minimal comparison of results with design specification |  |
| Improve-ments to system | 2 (or more) suggestions for improvement and explanation of how they improve the system | 2 (or more) suggestions for improvement | 1 superficial suggestion for improvement |