Marking Scheme for CEG 2136 Laboratories

Theoretical Part (20)
1. Introduction of problem or to lab (2.5)
    Give a brief introduction to the lab & why you might think this is important or not.
2. Discussion of problem (diagrams, flowcharts, requirements) (7.5)
    Explain briefly the problem and the requirements to solve it, using a diagram if required.
3. Discussion of algorithmic solution (10)
    Explain the used algorithm to solve it and the block components you are going to use.

Design Part (20)
1. Discussion of used components (10)
    Explain each component and its implementation and give the circuit diagrams.
2. Discussion of actual solution (10)
    Explain the actual implementation of the whole design and give the circuit diagrams.
3. Discussion of tool (Optional) (2.5 marks count if your report mark is less than 10 to a max. of 10)
    Give brief explanation of the used tool and any related equipment. You may give your own comments on the tool. Your mark here is only going to be counted if your report overview mark is less than 10 & to a max. of 10 marks at your Report Overview.
4. Discussion of challenging problems (Bonus) (5)
    Discuss any challenging problem that you encountered when trying to solve the problem, whether it was the tool or the algorithm or the circuit diagrams or some other factor.

Real Implementation (25)
1. Shown simulation/synthesis results (10)
    Give your simulation results.
2. Verification (actual simulation + live demonstration) (15)
    Give your verification results and comment on your results whether you end up with a working or non-working design. You get 10 marks when you fully demonstrate to your TA.

Discussion (5)
Explain any errors that you got or your successful design. If you have a discrepancy between your design and actual implementation, explain why.

Report Overview (10)
You are entitled to 10 marks that are going to be given on your presented report. You have to be brief, concise and to the point. Make sure that you don't have spelling or grammar mistakes. Your report should be machine typed. Hand written reports will not be accepted.
Your report should come in a maximum of 25 pages including appendices, cover page and table of contents.
If you fail to constrain your report to 25 pages, you'll loose a mark for every extra page.

Hint
A good report should be brief and self-explanatory to people who don't have a strong background in this area, i.e. it can serve as a reference for us in the future and there is no hidden information. So if you think there is any type of information you might need in the future to understand this report, then you should add it.