Digital Logic- First Assignment

Solve all the questions in A-4 size paper and Submit to the Department within following deadline. Design an attractive cover as you are as for project work. For reference, I have attached below.

Deadline: 17 December 2019

*(****Note:*** *Any incomplete assignment and submission beyond the deadline will be worthless. if you will absence on that day you can submit a day earlier.*

Long Questions.

1. What are the various types of numbering system use in digital logic? Explain. Convert the into different numbering system that you know.

Short Questions.

1. Differentiate between Analog and Digital system.

2. Proof the 1st and 2nd law of Demorgan's theorem with logic gate and truth table.

3. What do you mean by the Gray code? What are its application?

4. Explain the duality theorem with example.

5. Explain the error detection code with example.

6. What is university logic gate? Realize NAND and NOR as an universal gates,

7. Subtract

8. Which gates can be used as inverts in addition to the NOT gate and how?

10. Convert the following:

8 halne 16 haina ? Ma

11. Convert the following hexadecimal number to decimal and octal numbers.

a) 4FF

b) 6FED