

# MAC283 Final exam Spring 2024 (90 Minutes.)

1. Convert  $FGP(27) \rightarrow X(9)$  without converting to base 10.
2. Simplify each of the following two Karnaugh Maps to minimize the amount of gates required for its circuit.

AB	00	01	11	10
CD				
00	1	1		
01			1	1
11	1	1	1	1
10			1	1

AB	00	01	11	10
CD				
00	1	1		
01	1	1	1	1
11	1	1	1	1
10			1	1

3. For the following basic password handling program: [HERE:](#)

- a. (60%) Copy and paste the program into MS word and explain each line of code.
- b. (20%) Explain in details the logic of the program?
- c. (10%) What is the password?
- d. (10%) What will be the complete display on the screen?

[ASCII Table](#)

Send your work to [prof@dpeled.com](mailto:prof@dpeled.com)

GOOD LUCK!