**Introduction to Computer Science**

**22.2 Faculty of Computing**



**Tutorial Session 11**

**Answer all the questions.**

1. Compare and contrast different computer generations with examples.

2. Explain the difference between a typical machine and a computer, mentioning the main functions of a computer.

3. Do the following conversions.

a. 67810 ---> Bin

b. 11001101112 ---> Dec

c. 768 ---> Dec

d. 96216 ---> Bin

e. 416 + B16

f. 32 ---> 2’S Complement

4. Consider a disk with the following characteristics: block size B = 512 bytes, inter block gap size G = 128 bytes, number of blocks per track = 200, number of tracks per surface = 800. A disk pack consists of 15 double-sided disks.

1. What is the total capacity of a track and what is its useful capacity?
2. What are the total capacity and the useful capacity of a cylinder?
3. What are the total capacity and the useful capacity of a disk pack?