**Introduction to Computer Science**

**23.2 Faculty of Computing**

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**Tutorial Session 03**

**Answer all questions.**

01. Explain what is meant by Binary number system.

02. Explain the importance of Binary number system in computing.

03. Explain what is meant by Most Significant Bit (MSB) and Least Significant Bit (LSB) in a binary number.

04. Convert following decimal number to its binary equivalent,

a. 34

b. 78

c. 9999

d. 27

e. 183

f. 17

g. 155

05. Convert the following binary numbers to decimal equivalent,

a. 11011101012

b.10010101011102

c. 11010012

d. 1111001110112

e. 10001101110012

f. 100001001102

g. 110110101112

04. Work out the following sums

a. 1011102 + 11110102

b. 11010012 - 10001012

c. 11000102 - 1001112

d. 111112 - 10002

e. 10110002 - 1110002

f. 11100012 - 1100102

g. 1111012 - 1100112 - 001102