

(-10) - (+7)

Using this design explain 4 bit carry look ahead adder.

iv)

b.

In a carry look ahead addition, explain the generate G_i and propagate P_i functions for stage i.

1 of 2

(10 Marks)

(10 Marks)

- 8 a. Perform the signed multiplication of numbers +13 and -6 using booth multiplication and bit pair recording method. List the tables used. (10 Marks)
 - b. Perform division of number 9 by $3(9 \div 3)$ using the restoring division algorithm. Write the steps of algorithm used. (10 Marks)

Module-5

9 a. Draw and explain multiple bus organization. Explain its advantages. (10 Marks)
b. Write and explain the control sequence for execution of an unconditional branch instruction. (10 Marks)

OR

10a.Draw the block diagram of the control unit organization and describe.(10 Marks)b.Explain basic idea of instruction pipelining.(10 Marks)