

Class test 1

Section A

Perform bit conversions on the following numbers to binary:

- a) 45 (2)
- b) 156 (2)
- c) 247 (2)

Section B

Perform bit conversions on the following binary numbers to decimal:

- a) 101110 (2)
- b) 1101011 (2)
- c) 10011011 (2)

Section C

Perform binary addition:

- a) $1101 + 1011$ (2)
- b) $101010 + 110110$ (2)
- c) $1110110 + 1011011$ (2)

Perform binary addition in an 8-bit register (Indicate an overflow):

- d) $11011101 + 10101111$ (4)