

**Assignment – 6**

Date: October 24, 2018

**Submission Deadline: October 31, 2018**

**No assignment will be evaluated after the deadline.**

1. Implement the CRT (Chinese Remainder Theorem). Hence solve for  $x$  from the following set of simultaneous congruences:

- a.  $x \equiv 3 \pmod{7}$ ,  $x \equiv 3 \pmod{13}$ ,  $x \equiv 0 \pmod{12}$ .
- b.  $x \equiv 6 \pmod{11}$ ,  $x \equiv 13 \pmod{16}$ ,  $x \equiv 9 \pmod{21}$ ,  $x \equiv 19 \pmod{25}$ .