

# The Sanskaar Valley School

Class 7 – Computer Science

Home work sheet – Number System



Date: \_\_/03/2018

**1. Convert the following Decimal numbers to their Binary equivalents:**

- a) 15
- b) 13
- c) 24
- d) 532

**2. Convert the following Binary numbers to their Decimal equivalents:**

- a) 10101010
- b) 11101100
- c) 10000001
- d) 10001111

**3. Convert the following Octal numbers to their Decimal equivalents:**

- a) 128
- b) 147
- c) 457
- d) 123

**4. Convert the following Hexadecimal numbers to their Decimal equivalents:**

- a) B3AD
- b) 3FF
- c) 36C9
- d) 45E

**5. Binary Addition:**

- a)  $101 + 11$
- b)  $111 + 111$
- c)  $1010 + 1010$
- d)  $11101 + 1010$
- e)  $11111 + 11111$

**6. Binary Subtraction:**

- a)  $110 - 10$
- b)  $101 - 11$
- c)  $1001 - 11$
- d)  $1101 - 11$
- e)  $10001 - 100$

**7. Binary Multiplication:**

- a)  $10 \times 10$
- b)  $100 \times 11$
- c)  $101 \times 10$
- d)  $1011 \times 11$
- e)  $11011 \times 101$

**8. Binary Division:**

- a)  $100 / 10$
- b)  $111 / 11$
- c)  $1010 / 100$
- d)  $1101 / 11$
- e)  $10111 / 10$