

# 1. Number System

## WORKSHEET

### I. Tick (✓) the correct option.

1. The concept of 0 was introduced by:

(a) Aryabhat

(b) Bill Gates

(c) Ada Lovelace

(d) None of these

2. The base of the decimal number system is \_\_\_\_\_.

(a) 10

(b) 8

(c) 2

(d) 16

3. The computer only understands \_\_\_\_\_ code.

(a) Binary

(b) Decimal

(c) Octal

(d) English

4. There are \_\_\_\_\_ digits in binary number system.

(a) 0

(b) 1

(c) 2

(d) 3

5.  $1 + 1$  in the binary system is equal to:

(a) 01

(b) 11

(c) 10

(d) 00

### II. Fill In the blanks.

1. The \_\_\_\_\_ number system has 8 as its base.

2. \_\_\_\_\_ is the base of the binary number system.

3. There are \_\_\_\_\_ digits in the octal number system.

4.  $1 + 1 + 1 =$  \_\_\_\_\_ in the binary number system.

5. The computer understands the \_\_\_\_\_ number system.

**III. State whether the following statements are True (T) or False (F).**

1. The hexadecimal number system has 16 as its base. \_\_\_\_\_
2. There are 4 digits in the binary number system. \_\_\_\_\_
3. The computer understands the decimal number system. \_\_\_\_\_
4. Processing is required to convert any number system to the binary number system. \_\_\_\_\_
5. The octal number system has 8 as its base. \_\_\_\_\_