

Name: .....

Roll No: .....

Class: ..... Section: .....

Date: .....

## NUMBER SYSTEM

### Chapter-2

#### A. Define the following:

1. Number system- .....
2. Radix- .....
3. Binary addition- .....

#### B. Tick (✓) the correct option.

1. Base 2 is another name for the ..... .
 

|                              |                          |                          |                          |
|------------------------------|--------------------------|--------------------------|--------------------------|
| a. Binary number system      | <input type="checkbox"/> | b. Decimal number system | <input type="checkbox"/> |
| c. Hexadecimal number system | <input type="checkbox"/> | d. None of these         | <input type="checkbox"/> |
2. In binary addition,  $1 + 1 =$  ..... .
 

|      |                          |       |                          |      |                          |       |                          |
|------|--------------------------|-------|--------------------------|------|--------------------------|-------|--------------------------|
| a. 0 | <input type="checkbox"/> | b. 10 | <input type="checkbox"/> | c. 1 | <input type="checkbox"/> | d. 11 | <input type="checkbox"/> |
|------|--------------------------|-------|--------------------------|------|--------------------------|-------|--------------------------|
3. Which of the following is a valid octal number?
 

|        |                          |        |                          |        |                          |        |                          |
|--------|--------------------------|--------|--------------------------|--------|--------------------------|--------|--------------------------|
| a. 183 | <input type="checkbox"/> | b. 965 | <input type="checkbox"/> | c. 983 | <input type="checkbox"/> | d. 345 | <input type="checkbox"/> |
|--------|--------------------------|--------|--------------------------|--------|--------------------------|--------|--------------------------|
4. In binary number system, 1 Nibble is equal to ..... .
 

|           |                          |           |                          |            |                          |          |                          |
|-----------|--------------------------|-----------|--------------------------|------------|--------------------------|----------|--------------------------|
| a. 4 bits | <input type="checkbox"/> | b. 8 bits | <input type="checkbox"/> | c. 16 bits | <input type="checkbox"/> | d. 1 bit | <input type="checkbox"/> |
|-----------|--------------------------|-----------|--------------------------|------------|--------------------------|----------|--------------------------|
5. The digital computer represents all kinds of data and information in ..... numbers.
 

|            |                          |                  |                          |
|------------|--------------------------|------------------|--------------------------|
| a. binary  | <input type="checkbox"/> | b. hexadecimal   | <input type="checkbox"/> |
| c. decimal | <input type="checkbox"/> | d. None of these | <input type="checkbox"/> |

#### C. Convert the decimal number 44 into binary number.

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