

# MARWARI COLLEGE RANCHI

**Subject** : Fundamentals of Computer Science

**Full Marks** : 30

**Paper** : I

**Time** : 1Hr.

## MCA SEMESTER 1

### Mid semester examination 2016

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#### Group - A

Select the correct answer/fill in the blanks of the following:

1 x 10 = 10

1. .... and ..... are also known as Universal logic gates.
2. 1's complement for 01010101 is .....
3. The range of Binary number system is .....
4. Cache memory is also known as ..... Memory.
5. Hard disk is an example of volatile memory (T/F).
6. Expand the following:
  - a. VIRUS
  - b. PROM
  - c. EEPROM
  - d. USB

#### Group - B

Answer any **TWO** questions:

5 x 2 = 10

1. Explain various types of printer.
2. Justify how a touch screen behaves as input as well as output device.
3. Discuss the various types of ROM.
4. Perform the following conversions:
  - a.  $(44)_8 = ( )_{10}$
  - b.  $(1011)_{10} = ( )_2$

#### Group - C

Answer any **ONE** question:

10 x 1 = 10

1. What is microprocessor? Explain the architecture of 8085 microprocessor.
2. Discuss the Von-Neumann architecture.